



Mastering multiplication

– from year 2
to year 6

Contents



Introduction	004
Adaptable resources and activities	005
Verbal games	005
General resources	006
Games and activities	007
x2, x5 and x10 resources	024
Multiplication dominoes	025
I can count in steps of two	028
I can recall my two times tables	029
I can recall my five times tables	031
I can recall my ten times tables	032
2p, 5p and 10p coin challenge	033
Two, five and ten times multiplication problems	035
Two, five and ten times multiplication challenge problems	040
x3, x4 and x8 resources	043
Follow me cards - x3, x4 and x8	044
Counting in steps of 3, 4 and 8	048
I can recall my three times tables	049
I can recall my four times tables	051
I can recall my eight times tables	053
The witches' cauldron problem	055
Three, four and eight times multiplication problems	057
Three, four and eight times multiplication challenge problems	063
x6, x7, x9, x11 and x12 resources	066
Follow me cards - all tables	067
Multiplication jigsaw	071
I can count in steps of 6, 7, 9, 11 and 12	074
Factor bugs	075
Multiplication circles	076
Aliens problem	078
All multiplication problems	080
All multiplication challenge problems	085
Individual multiplication table assessments	088
Two times table	089
Three times table	090
Four times table	091
Five times table	092

Six times table	093
Seven times table	094
Eight times table	095
Nine times table	096
Ten times table	097
Eleven times table	098
Twelve times table	099
Individual times table answer sheet	100
Challenge multiplication sheets	103
Challenge sheets - contents page	104
Challenge sheet 1	105
Challenge sheet 2	106
Challenge sheet 3	107
Challenge sheet 4	108
Challenge sheet 5	109
Challenge sheet 6	110
Challenge sheet 7	111
Challenge sheet 8	112
Challenge sheet 9	113
Challenge sheet 10	114
Challenge sheet 11	116
Challenge sheet 12	118
Class assessment sheet	120
Answer sheet 1	121
Answer sheet 2	122
Answer sheet 3	123
Answer sheet 4	124
Answer sheet 5	125

Introduction



This pack aims to provide creative activities, engaging resources, differentiated mastery-type word problems, including answers, and essential assessments to support children in their learning of the multiplication facts to 12×12 .

It is organised into the following sections:

Adaptable resources and activities

A collection of games, resources and activities which can be adapted for every year group.

x2, x5 and x10 resources

A collection of worksheets, activities and problems to tackle the 2, 5 and 10 multiplication tables.

x3, x4 and x8 resources

A collection of worksheets, activities and problems to tackle the 3, 4 and 8 multiplication tables.

x6, x7, x9, x11 and x12 resources

A collection of worksheets, activities and problems to tackle the 6, 7, 9, 11 and 12 multiplication tables.

Individual multiplication table assessments

Individual multiplication assessment sheets.

Challenge multiplication sheets

A collection of timed assessment sheets which increase in difficulty.

There is also a handy PowerPoint with a collection of starter activities for tackling each of the multiplication facts. This can be found [here](#).

We hope you enjoy using this pack. If you have any questions, please get in touch: email support@teachitprimary.co.uk or call us on 01225 788851. Alternatively, you might like to give some feedback for other Teachit Primary members - you can do this by adding a comment on the [Mastering multiplication](#) page on Teachit Primary (please log in to access this).

Verbal games



Pass it on

A fun game which encourages teamwork and cooperation

Sit in a circle on the carpet with a beanbag or similar. Choose a multiple to count up in, for example 6. The first child calls out 'zero' and then throws the beanbag underarm to someone sitting opposite in the circle. The child who catches it must call out the next number in the sequence, in this case '12' and then throw the beanbag across the circle to the player sitting to the left of the person who threw it to them. Play continues in this way to see how high a number is reached before the beanbag is dropped or a target number reached.

A variation on the game is to count backwards from a target number.

Fizz buzz

An excellent game to consolidate multiples

Sit in a circle or class positions and count around the group but use the word 'fizz' for a given multiple, for example 3, and 'buzz' for a different multiple, for example 5. The children then say 'fizz buzz' for multiples of both 3 and 5.

For example: 1, 2, fizz, 4, buzz, fizz, 7, 8, fizz, buzz, 11, fizz, 13, 14, fizz buzz and so on.

Around the world

A competitive game to encourage quick recall

Sit in a circle or class positions and choose one child to start their journey around the world. Pick a starting position which will be a member of the class for this child to stand behind and either call out a multiplication sum for the children to answer or choose a **flash card** at random. The child who answers correctly and quickest, moves to the next person, and if this is the sitting person they switch places. The journey continues until one child makes it around the whole of the classroom.

Stand up/sit down!

An active game to consolidate knowledge of multiples

Ask children to write a number from a multiplication table on their whiteboards. The teacher then calls out a multiplication table, for example 4, and all of the children who have a multiple of this number must then sit down or stand up.

General resources

Multiplication grid

A handy tool

A completed 12 x 12 multiplication grid for tables, display or to be sent home.

100 grid

Children love discovering patterns

The 100 grid is perfect for investigating multiples of numbers and explaining their patterns.

Speedy multiplication grids

Perfect for starters, plenaries and home learning

Recall multiplication facts with **Speedy multiplication grid a** (numbers filled), **Speedy multiplication grid b** (blank for own numbers) and **Mini speedy multiplication grids**.

Multiplication flash cards

A handy resource to keep multiplication skills sharp

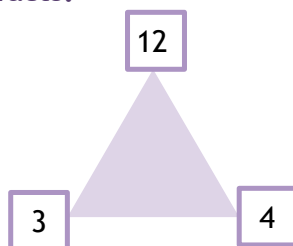
When children line-up to enter or leave the classroom, hold up a flashcard for children to answer. This is their 'pass' to enter or leave. Perfect for end of lessons.

Multiplication triangles

A simple yet effective way to recall multiplication and division facts

Choose a multiplication to explore or ask children to generate their own triangles using two dice (either 1-6 sided or 1-12 sided). Children write the numbers thrown in the bottom corners and the product in the top corner. They then record all four related facts on the sheet.

A variation is to fill two corners of each triangle with two related facts and ask children to find the missing facts.



Games and activities

Rapid recall cards

A quick and fun way to help children recall multiplication facts

Print the sheets off back-to-back or glue the two sheets back to back - the multiplication facts and their answers will match up. Cut out the facts (you may chose to laminate the fact cards to prolong their life.) and ask children to arrange the multiplication facts face up. They must now say each fact aloud and recall its answer before turning the card to check, for example, '7 x 7 is 49'. If children work with a partner they can time how quickly each of them is able to recall all of the multiplication facts.

A further challenge is for children to find the inverse, so they start with the answer and need to recall the multiplication sum required to find this answer. For example, '49 is 7 lots of 7'.

NB the resource shows the 7 times multiplication facts but can be easily edited to show a different multiplication table.

Make it with arrays

Perfect for visual and kinaesthetic learners

Help children of all ages to visualise the multiplication by building it as an array (a systematic arrangement of the sums using rows and columns). You can use conventional classroom tools like cubes or counters; or try some unusual objects like buttons, Smarties or Lego bricks.

Alternatively, children generate their own arrays by rolling two dice and completing the **Arrays sheet**.

$$4 + 4 + 4 = 12$$

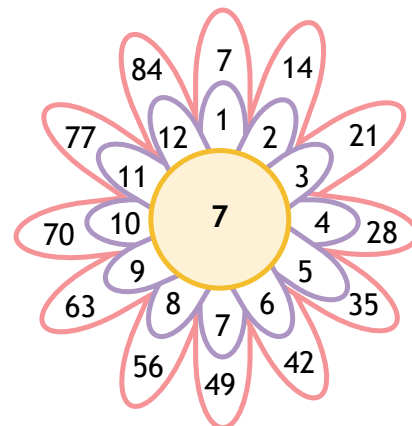
$$4 \times 3$$



Multiplication flowers

Ideal for your visual learners

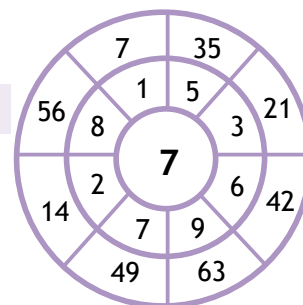
Model how to complete the multiplication flower resource with a multiplication table of your choice. Perfect as a starter, plenary or home learning task.



Multiplication dartboards

A fun idea for rapid recall

Children recall multiplication facts by multiplying the middle number by the one next to it in each of the segments, then write the answer in the outer circle (see example). Add your own numbers to the sheet or ask children to choose their own.



Multiplication with cards

You will need a pack of playing cards for each pair of children

You will need a deck of cards for this game. Allocate a value to the picture cards, so Ace is 1, Jack is 10, Queen is 11 and King is 12. Split the pack into two piles, turn a card each and multiply. Whoever has the highest product keeps both cards. Extend by asking for the inverse division sum.

Bingo!

A multiplication spin on this classroom favourite!

Write the numbers below on the board and ask children to choose nine different numbers at random and write them on a **Bingo! grid**. Call out the sums on the **multiplication flash cards** and ask children to cross out or cover any corresponding answers - remember to make a note of the cards called. The winner is the first child to cross out or cover all of their numbers and call out Bingo!

Blue cards (x2, x5, x10 facts):

3, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 40, 45, 60, 80, 90, 100, 120

Pink cards (x3, x4, x8 facts):

1, 4, 6, 7, 8, 9, 11, 12, 16, 21, 24, 27, 28, 32, 33, 36, 48, 56, 72, 88

Yellow cards (x6, x7, x9, x11, x12 facts):

1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 18, 24, 27, 28, 30, 36, 44, 48, 49, 54, 60, 63, 66, 70, 72, 77, 88, 96, 121, 132, 144

Multiplication grid

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Name:

Date:.....

100 grid

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Name:

Date:.....

Speedy multiplication grid a

Time yourself to see how speedily you can recall these number facts!

I completed my table in

I made errors.



X	1	2	3	4	5	6	7	8	9	10	11	12
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

Add your own numbers and time yourself to see how speedily you can recall the number facts!

I made errors.

[illegible]

Name:

Date:.....

Mini speedy multiplication grids

Add your own numbers and time yourself to see how speedily you can recall the number facts!

X					

I completed my table in

I made errors.



----- ✂ -----

Name:

Date:.....

Mini speedy multiplication grids

Add your own numbers and time yourself to see how speedily you can recall the number facts!

X					

I completed my table in

I made errors.

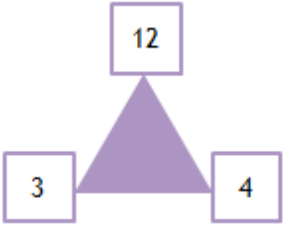


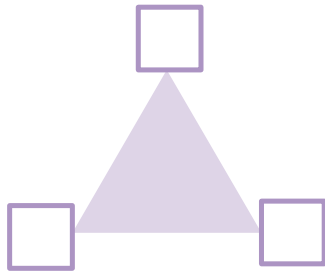
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Date:.....

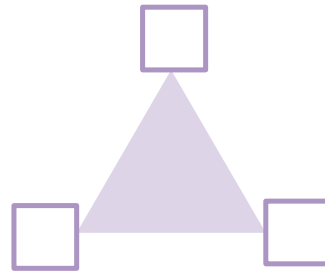
Multiplication triangles

Throw two dice together and record the numbers in the bottom corners. Multiply together to generate their product and write in the top box. Find all four related facts.

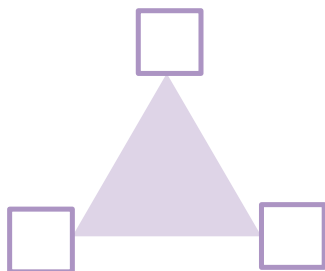
Example:		$3 \times 4 = 12$ $4 \times 3 = 12$ $12 \div 4 = 3$ $12 \div 3 = 4$
----------	---	--



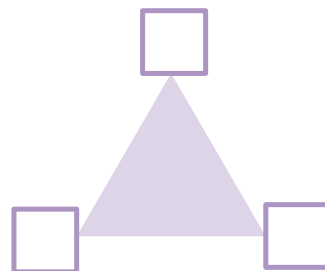
.....	\times	=
.....	\times	=
.....	\div	=
.....	\div	=



.....	\times	=
.....	\times	=
.....	\div	=
.....	\div	=



.....	\times	=
.....	\times	=
.....	\div	=
.....	\div	=



.....	\times	=
.....	\times	=
.....	\div	=
.....	\div	=

Name:

Date:.....

Rapid recall cards

1×7

2×7

3×7

4×7

5×7

6×7

7×7

8×7

9×7

10×7

11×7

12×7

14	7
28	21
42	35
56	49
70	63
84	77

Name:

Date:.....

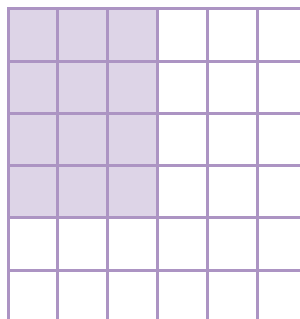
Arrays

Throw two 1-6 sided dice to generate your own array and complete each of the grids below.

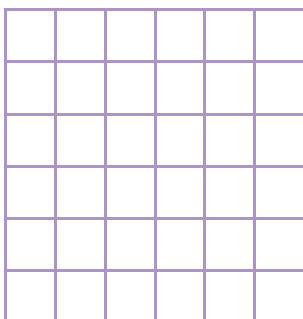
Example:

Throw a 3 and a 4.

Makes 3 x 4.



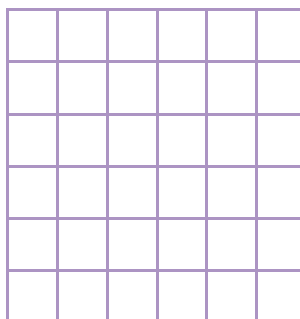
1.



Array shown:

.....

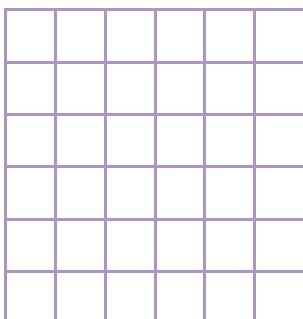
2.



Array shown:

.....

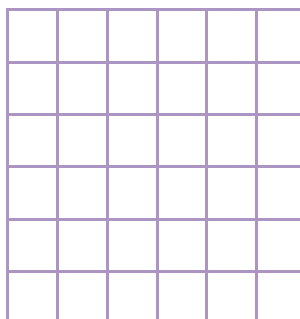
3.



Array shown:

.....

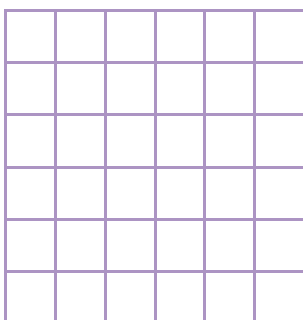
4.



Array shown:

.....

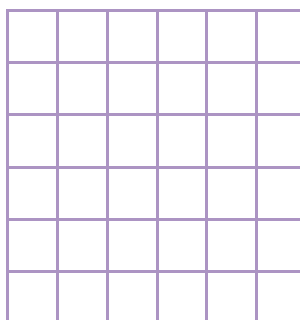
5.



Array shown:

.....

6.



Array shown:

.....

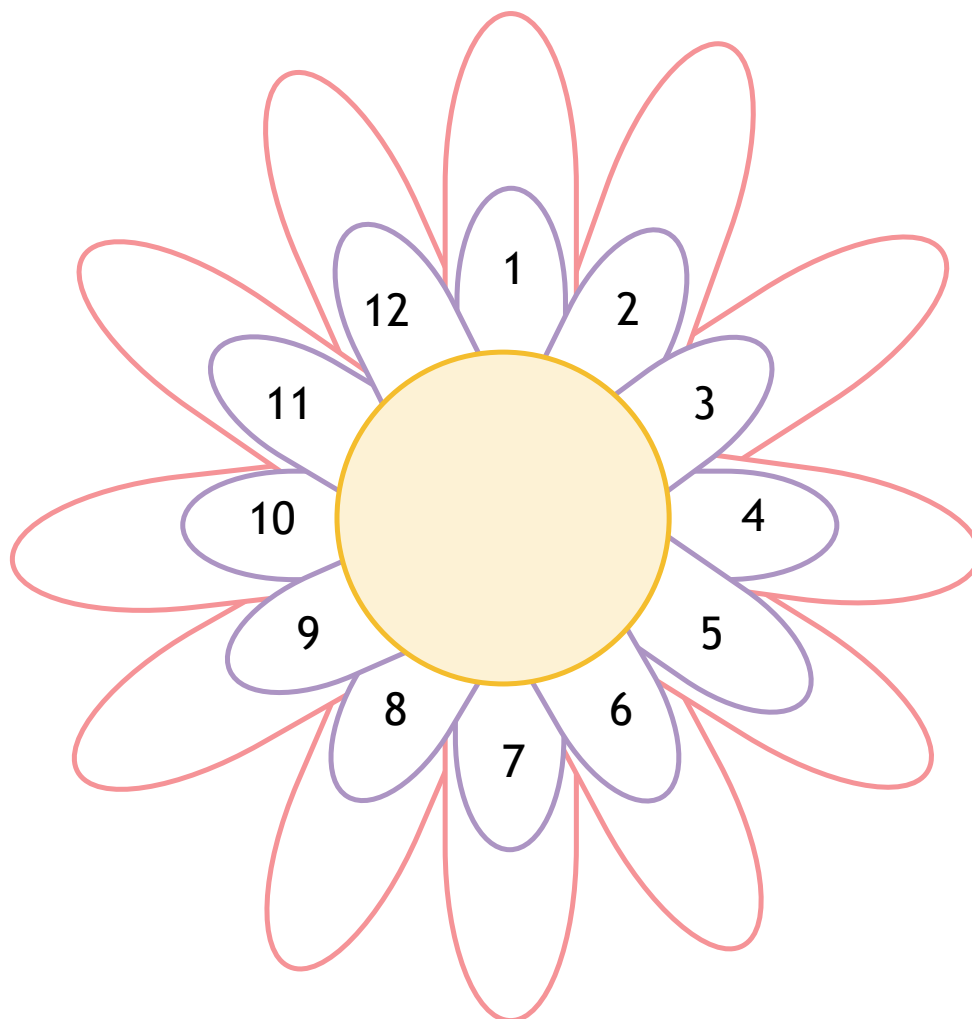
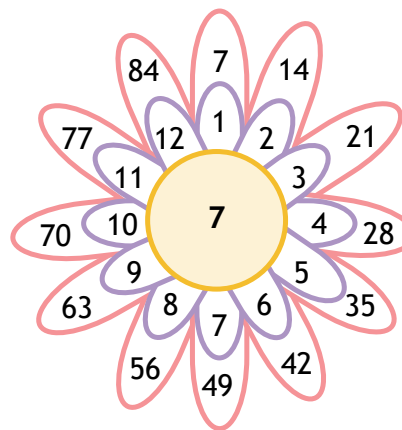
Name:

Date:.....

Multiplication flower

Write a number in the middle of the flower and multiply it by the number in the petal next to it. Write the answer in the outer petal.

Example:



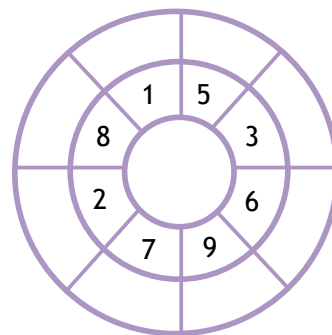
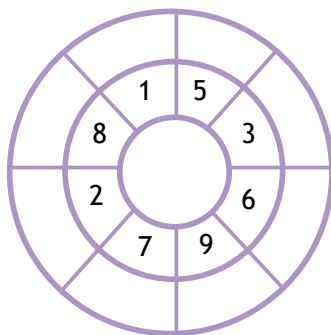
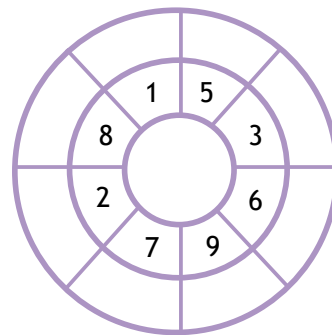
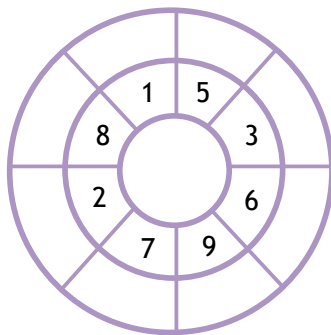
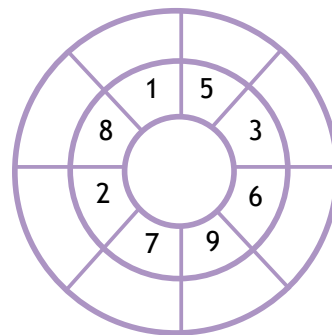
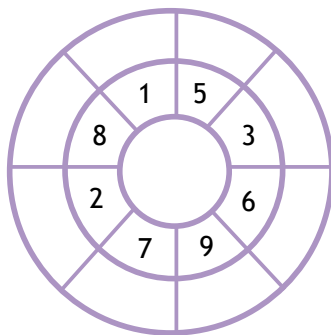
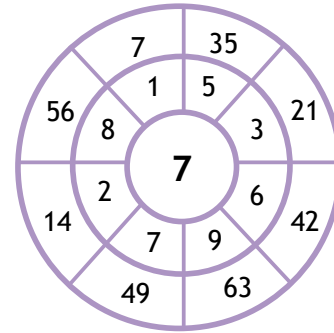
Name:

Date:.....

Multiplication dartboard

Write a number in the centre of the dartboard and multiply it by the one next to it, then write the answer in the outer circle. An example is shown for you.

Example:



Name:

Date:.....

Bingo! grids

Choose 9 different numbers from the board and write one in each square. Cover or cross out any of the squares which have the answer to the sums called out.

Choose 9 different numbers from the board and write one in each square. Cover or cross out any of the squares which have the answer to the sums called out.

Choose 9 different numbers from the board and write one in each square. Cover or cross out any of the squares which have the answer to the sums called out.

Choose 9 different numbers from the board and write one in each square. Cover or cross out any of the squares which have the answer to the sums called out.

Name:

Date:.....

Multiplication flash cards

A handy set of colour coded flash cards to be used for rapid recall or for the games 'Around the World' and 'Bingo!'. Laminate to prolong life.

The two, five and ten multiplication facts are **blue**.

The three, four and eight multiplication facts are **pink**.

The six, seven, nine, eleven and twelve multiplication facts are **yellow**.

Two, five and ten:

$5 \times 2 =$	$12 \times 2 =$	$10 \times 8 =$
$7 \times 2 =$	$2 \times 8 =$	$10 \times 10 =$
$18 \div 2 =$	$10 \div 2 =$	$10 \times 9 =$
$12 \div 2 =$	$14 \div 2 =$	$12 \times 10 =$
$5 \times 9 =$	$5 \times 8 =$	$110 \div 10 =$
$12 \times 5 =$	$3 \times 5 =$	$30 \div 10 =$
$55 \div 5 =$	$30 \div 5 =$	$60 \div 10 =$
$40 \div 5 =$	$60 \div 5 =$	$80 \div 10 =$



Three, four and eight:

$11 \times 3 =$	$3 \times 8 =$	$11 \times 8 =$
$3 \times 9 =$	$7 \times 3 =$	$8 \times 9 =$
$24 \div 3 =$	$3 \div 3 =$	$8 \times 6 =$
$21 \div 3 =$	$36 \div 3 =$	$7 \times 8 =$
$4 \times 4 =$	$7 \times 4 =$	$64 \div 8 =$
$4 \times 8 =$	$4 \times 9 =$	$32 \div 8 =$
$36 \div 4 =$	$44 \div 4 =$	$88 \div 8 =$
$16 \div 4 =$	$24 \div 4 =$	$56 \div 8 =$



Six, seven, nine, eleven and twelve:

$5 \times 6 =$	$3 \times 6 =$	$12 \times 11 =$
$12 \times 6 =$	$10 \times 6 =$	$11 \times 6 =$
$66 \div 6 =$	$42 \div 6 =$	$44 \div 11 =$
$12 \div 6 =$	$24 \div 6 =$	$66 \div 11 =$
$11 \times 7 =$	$10 \times 7 =$	$33 \div 11 =$
$7 \times 7 =$	$7 \times 4 =$	$88 \div 11 =$
$56 \div 7 =$	$21 \div 7 =$	$12 \times 4 =$
$84 \div 7 =$	$35 \div 7 =$	$12 \times 8 =$
$9 \times 1 =$	$3 \times 9 =$	$12 \times 12 =$
$7 \times 9 =$	$9 \times 6 =$	$3 \times 12 =$
$27 \div 9 =$	$63 \div 9 =$	$60 \div 12 =$
$45 \div 9 =$	$9 \div 9 =$	$132 \div 12 =$
$11 \times 11 =$	$11 \times 8 =$	$72 \div 12 =$
$48 \div 12 =$	$30 \div 7 =$	$2 \times 12 =$

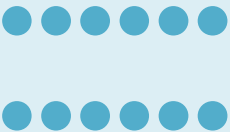


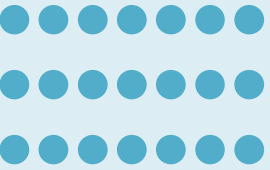




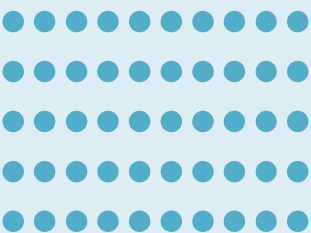



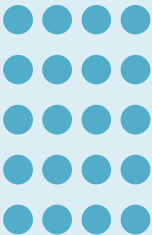

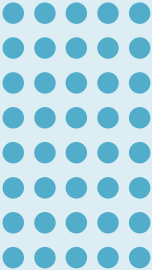




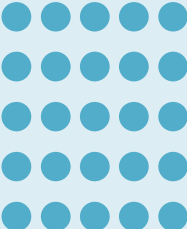
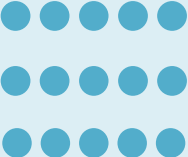

x2, x5 and x10 resources

A collection of worksheets, activities and problems to tackle the 2, 5 and 10 multiplication tables.



Multiplication dominoes - 2, 5 and 10

	2×3		10×2
	7×3		1×2
	7×2		5×6
	10×3		10×5
	9×2		4×5

	4×10		5×8
	8×2		2×4
	5×2		10×1
	5×5		3×5
	2×2		6×2



Instructions and ideas on how to use this resource:

You may wish to laminate these cards so that they can be reused.

A game of dominoes for 2 or 4 children

Cut out the dominoes and place face down on the table and mixed up. Each child takes an even number of dominoes and keeps them hidden from the other children.

The youngest child starts first and places a domino in the centre of the table. Play then works around the group in a clockwise direction.

Children must match the number sentences and correct array on the domino. If they cannot go, they knock on the table and play passes to the next child.

The winner is the first child to get rid of all their dominoes.

Individual task

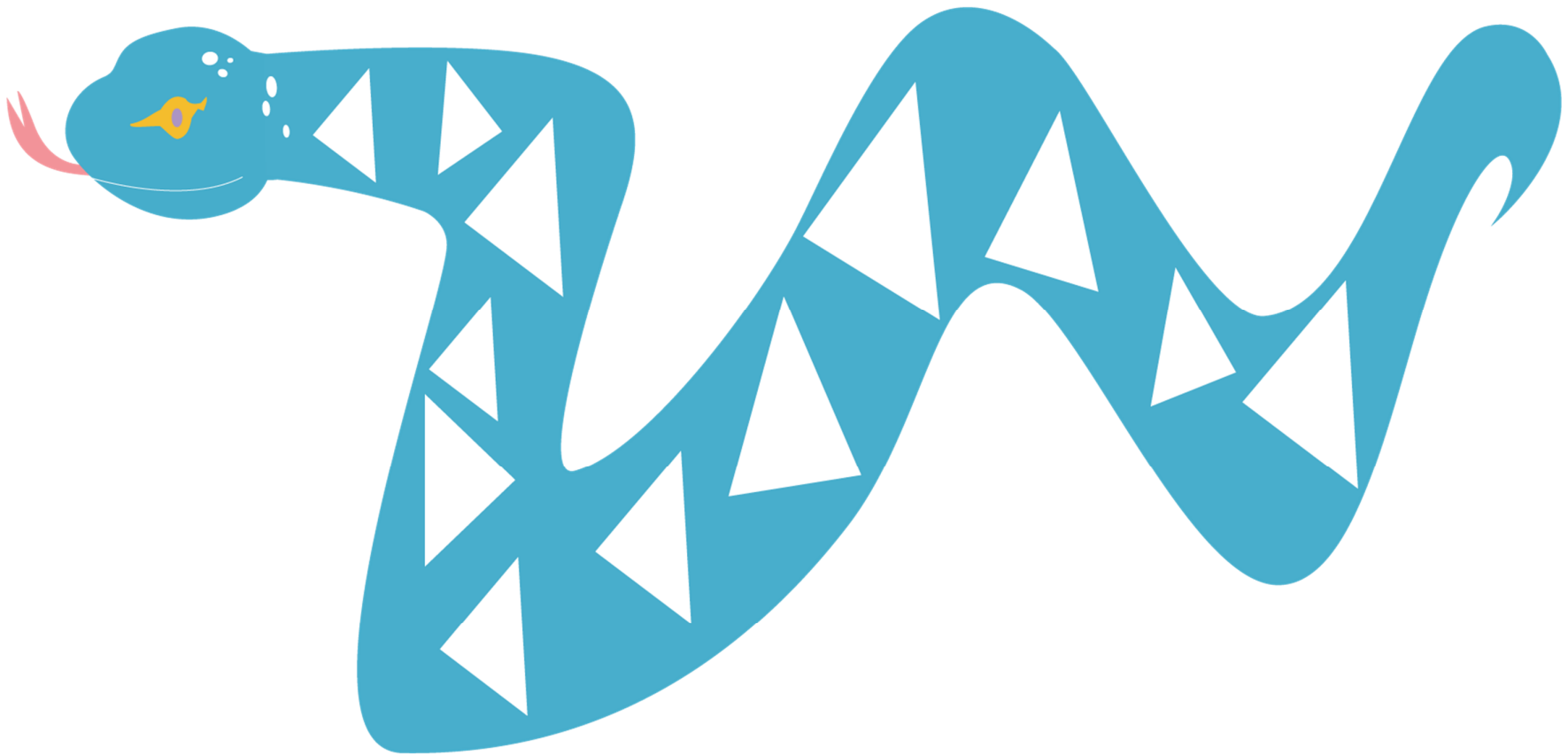
Children match up corresponding number sentences and arrays on dominoes.

Name:

Date:

I can count in steps of two

Fill in the triangles on the snake!



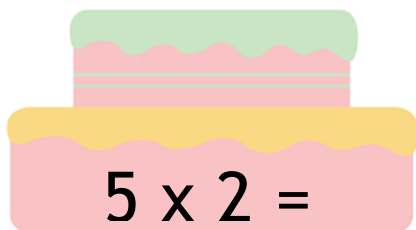
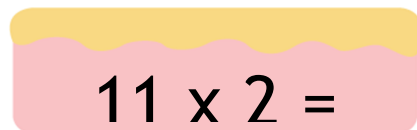
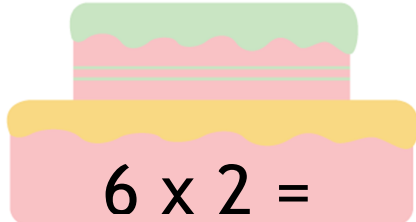
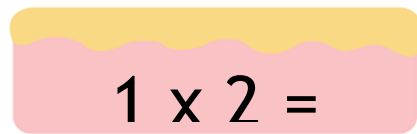
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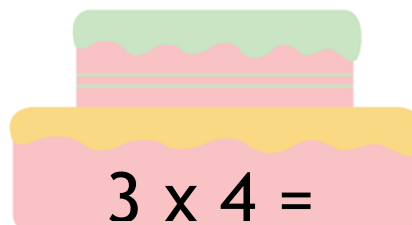
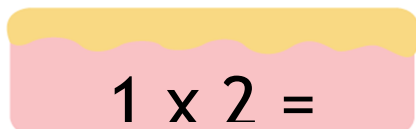
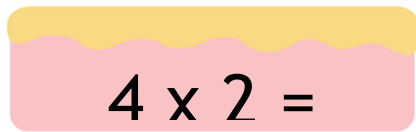
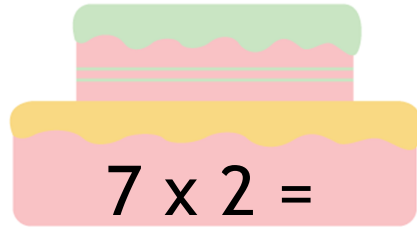
Date:.....

I can recall my two times tables

Draw the correct number of candles on each cake and find the answer. An example is done for you.

Example:





Name:

Date:.....

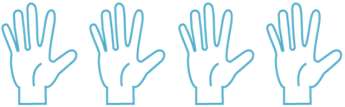

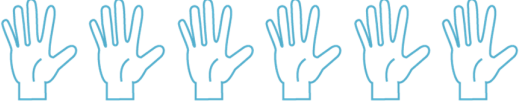





I can recall my five times tables

Write the number sentence and answer shown by the number of hands.

Example:



$$5 \times 3 = 15$$

Name:

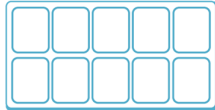
Date:.....

I can recall my ten times tables

Write the number sentence for each question, and answer it.
How many pieces of chocolate did each child eat?

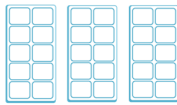
Example:

Jasper

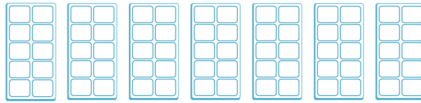


$$10 \times 1 = 10$$

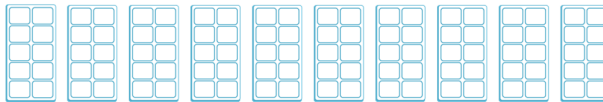
Eric



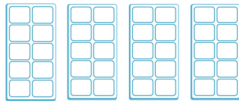
Sara



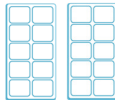
George



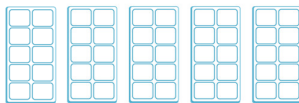
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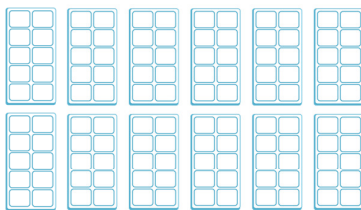
Dan



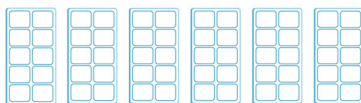
Sophie



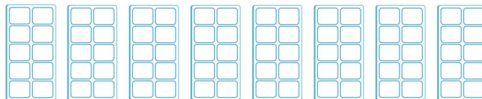
Mr Greedy



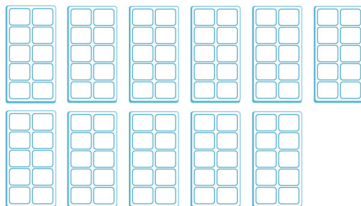
Elizabeth



Jason



Erica



Name:

Date:.....




2p, 5p and 10p coin challenge

Jill has a purse full of 2p coins, 5p coins and 10p coins.






What possible combinations of coins could there be if she has 20p?

Complete the table and show what coins Jill could have.

2p coin 						
5p coin 						
10p coin 						
Total 20p	20p	20p	20p	20p	20p	20p

Challenge

What possible combination of coins could Jill have in her purse if she has 30p?




2p coin 										
5p coin 										
10p coin 										
Total 30p	30p	30p	30p	30p	30p	30p	30p	30p	30p	30p



Teacher's notes and answers




This problem is a perfect introduction to working in a systematic way. You may wish to model an example first (e.g. ways of making 10p) before asking the children to tackle the worksheet.

You may choose to use real coins to help children visualise all of the possible answers, and encourage them to draw the coins in the table.

2p coin 	10	5	5	0	0	0
5p coin 	0	0	2	4	2	0
10p coin 	0	1	0	0	1	2
Total 20p	20p	20p	20p	20p	20p	20p

Challenge

What possible combination of coins could Jill have in her purse if she has 30p?

2p coin 	15	10	10	5	5	5	0	0	0	0
5p coin 	0	2	0	4	2	0	6	4	2	0
10p coin 	0	0	1	0	1	2	0	1	2	3
Total 30p	30p	30p	30p	30p	30p	30p	30p	30p	30p	30p

Name:

Date:.....

Two, five and ten times multiplication problems

Set A

1. Write these addition sentences as multiplication sentences. The first one has been completed for you.

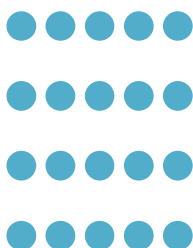
a. $5 + 5 + 5 + 5 = 5 \times 4$

c. $10 + 10 = \dots\dots\dots$

b. $2 + 2 + 2 + 2 + 2 = \dots\dots\dots$

d. $5 + 5 + 5 + 5 + 5 + 5 + 5 = \dots\dots\dots$

2. This array shows $5 \times 4 = 20$



Write three other multiplication or addition facts that this array shows.

.....

.....

.....

Write one division fact that this array shows.

.....

3. A school buys pencils in boxes of ten. They buy twelve boxes. How many pencils do they have altogether? Write the number sentence needed.

4. a. Jane buys 3 circus tickets costing £5 each. How much does she spend?
Write the multiplication number sentence and calculate the cost.

- b. If Jane paid with a £20 note, how much change would she get?

Two, five and ten times multiplication problems

5. 12 children ride their two-wheeled bicycles to the park.
How many wheels are there altogether?



6. a. Two friends share 14 sweets equally between them. How much do they each get?
Write this as a division number sentence.

- b. Write your own sharing story like this one.

7. a. Textbooks cost £10 each. A school has £80. How many books can they buy?

- b. How much change would there be from £100?



8. There are 16 gloves in the lost property box at school. How many pairs of gloves will this make?

9. A lollipop costs 5p. Thomas buys 7 of them. How much money does he spend?

10. a. Gingerbread men come in packs (groups) of 5. Dave wants to buy 20 gingerbread men. How many packs will he need to buy? Write this as a division sum.

- b. Make up your own grouping story like this one.



Name:

Date:.....

Two, five and ten times multiplication problems

Set B

1. Write these addition sentences as multiplication sentences. The first one has been completed for you.

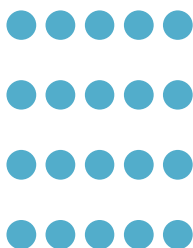
a. $5 + 5 + 5 + 5 = 5 \times 4$

c. $10 + 10 = \dots\dots\dots$

b. $2 + 2 + 2 + 2 + 2 = \dots\dots\dots$

d. $5 + 5 + 5 + 5 + 5 + 5 + 5 = \dots\dots\dots$

2. This array shows $5 \times 4 = 20$



Write three other multiplication or addition facts that this array shows.

.....

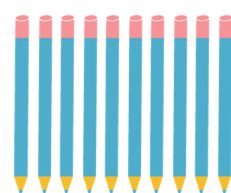
.....

.....

Write one division fact that this array shows.

.....

3. A school buys pencils in boxes of ten. They buy twelve boxes. How many pencils do they have altogether? Write the number sentence needed.



4. a. Jane buys 3 circus tickets costing £5 each. How much does she spend?
Write the multiplication number sentence and calculate the cost.



- b. If Jane paid with a £20 note, how much change would she get?

Two, five and ten times multiplication problems

5. 12 children ride their two-wheeled bicycles to the park.
How many wheels are there altogether?



6. a. Two friends share 14 sweets equally between them. How much do they each get?
Write this as a division number sentence.



- b. Write your own sharing story like this one.

7. a. Textbooks cost £10 each. A school has £80. How many books can they buy?



- b. How much change would there be from £100?

8. There are 16 gloves in the lost property box at school. How many pairs of gloves will this make?



9. A lollipop costs 5p. Thomas buys 7 of them. How much money does he spend?



5p

10. a. Gingerbread men come in packs (groups) of 5. Dave wants to buy 20 gingerbread men. How many packs will he need to buy? Write this as a division sum.

- b. Make up your own grouping story like this one.





Answers

Set B problems provide more pictorial support for the children.

1. Write these addition sentences as multiplication sentences. The first one has been completed for you.

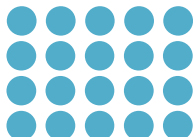
a. $5 + 5 + 5 + 5 = 5 \times 4$

b. $2 + 2 + 2 + 2 + 2 = 2 \times 5$

c. $10 + 10 = 10 \times 2$

d. $5 + 5 + 5 + 5 + 5 + 5 + 5 = 5 \times 7$

2. This array shows $5 \times 4 = 20$



Write three other multiplication or addition facts that this array shows.

$4 \times 5 = 20$

$5 + 5 + 5 + 5 = 20$

$4 + 4 + 4 + 4 + 4 = 20$

Write one division fact that this array shows.

$20 \div 5 = 4$ or $20 \div 4 = 5$

3. A school buys pencils in boxes of ten. They buy twelve boxes. How many pencils do they have altogether? Write the number sentence needed.

$10 \times 12 = 120$ pencils

- 4a. Jane buys 3 circus tickets costing £5 each. How much does she spend?

Write the multiplication number sentence and calculate the cost.

$£5 \times 3 = £15$

- b. If Jane paid with a £20 note, how much change would she get?

$£20 - £5 = £15$

5. 12 children ride their two-wheeled bicycles to the park.

How many tyres are there altogether?

$12 \times 2 = 24$

- 6a. Two friends share 14 sweets equally between them. How much do they each get?

Write this as a division number sentence.

$14 \div 2 = 7$

- b. Write your own sharing story like this one.

Accept suitable examples.

- 7a. Textbooks cost £10 each. A school has £80. How many books can they buy?

$£80 \div £10 = 8$ books

- b. How much change would there be from £100?

$£20$

8. There are 16 gloves in the lost property box at school. How many pairs of gloves will this make?

$16 \div 2 = 8$

9. A lollipop costs 5p. Thomas buys 7 of them. How much money does he spend?

$5p \times 7 = 35p$

- 10a. Gingerbread men come in packs (groups) of 5. Dave wants to buy 20 gingerbread men. How many packs will he need to buy? Write this as a division sum.

$20 \div 5 = 4$

- b. Make up your own grouping story like this one.

Accept suitable examples.

Two, five and ten times multiplication challenge problems

Name:

Date:.....

Two, five and ten times multiplication challenge problems

1. True or false? Circle the correct answer.

a. $5 \times 8 = 8 \times 5$ (True/False)

b. $5 \times 8 = 10 \times 4$ (True/False)

c. $5 \times 8 = 4 \times 10$ (True/False)

Explain your reasoning.

.....
.....

2. Which has the most pencils:

3 packets of pencils with 10 in
each packet

or

5 packets of pencils with 5 in
each packet?

Explain your reasoning.

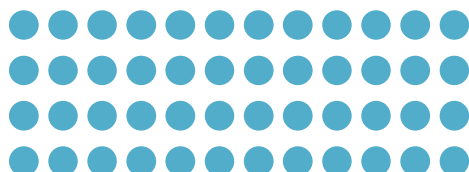
.....
.....

3. Write these addition sentences as multiplication sentences.

a. $10 + 10 + 5 + 5 =$ c. $5 + 5 + 2 + 3 =$

b. $4 + 2 + 2 =$ d. $4 + 4 + 2 + 2 =$

4. Find different ways to answer 12×4 .



Two, five and ten times multiplication challenge problems

5. Two friends want to buy some bouncy balls and then share them out equally between them.

They could buy a bag of 11, 13 or 16 bouncy balls.

Which size bag should they buy so that they can share them equally?

What other numbers of bouncy balls could be shared equally?

Explain your reasoning.

.....

.....

6. Together George and Lynne have £18.

George has twice as much as Lynne.

How much does Lynne have?



Answers

1. True or false? Circle the correct answer.

a. $5 \times 8 = 8 \times 5$ True

b. $5 \times 8 = 10 \times 4$ True

c. $5 \times 8 = 4 \times 10$ True

Explain your reasoning.

All of the number sentences make 40.

What do you notice?

The first sum is the inverse of the second. The other sums you need to double one number and half the other to find the same total of 40.

2. Which has the most pencils:

3 packets of pencils with 10 in each packet, or
5 packets of pencils with 5 in each packet?

Explain your reasoning.

$3 \times 10 = 30$ and $5 \times 5 = 25$, so it is better to buy 3 packets of 10 pencils.

3. Write these addition sentences as multiplication sentences.

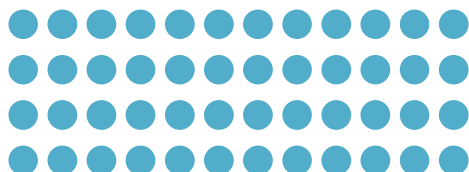
a. $10 + 10 + 5 + 5 = 10 \times 3$

c. $5 + 5 + 2 + 3 = 5 \times 3$

b. $4 + 2 + 2 = 4 \times 2$

d. $4 + 4 + 2 + 2 = 4 \times 3$

4. Find different ways to answer 12×4 .



$12 \times 2 = 24$, so $12 \times 4 = 48$

$10 \times 4 = 40$ and $2 \times 4 = 8$, so $40 + 8 = 48$

$5 \times 4 = 20$, so two lots of 20 is 40. Add $2 \times 4 = 8$, and you have 48.

5. Two friends want to buy some bouncy balls and then share them out equally between them.

They could buy a bag of 11, 13 or 16 bouncy balls.

Which size bag should they buy so that they can share them equally?

They should buy a bag of 16 balls as this is an even number and can be shared equally.

What other numbers of bouncy balls could be shared equally?

Accept any even numbers.

Explain your reasoning.

Because they are even.

6. Together George and Lynne have £18.

George has twice as much as Lynne.

How much does Lynne have?

George
Lynne



£18

$£18 \div 3 = £6$, so Lynne has £6.

x3, x4 and x8 resources

A collection of worksheets, activities and problems to tackle the 3, 4 and 8 multiplication tables.

Follow me cards - x3, x4 and x8 tables

Start card I have 100	What is 4×3 ?	I have 12	Double 8.
I have 16	Find the product of 4 and 12.	I have 48	What is 3 multiplied by 8?
I have 24	What is 8 squared?	I have 64	Multiply 12×8 .
I have 96	Find twelve lots of 3.	I have 36	What is 7×3 ?
I have 21	Double 9.	I have 18	Find 3 squared.

I have 9	What is the product of 4 and 5?	I have 20	Multiply 11 by 3.
I have 33	What is 8 times 4?	I have 32	Find 10 lots of 4.
I have 40	Find the double of 4.	I have 8	What is 3×4 ?
I have 12	Find the product of 8 and 11.	I have 88	What is 2 multiplied by 3?
I have 6	Find 9×3 .	I have 27	Multiply 10 by 3.

I have 30	Multiply 8 by 7.	I have 56	Double 33.
I have 66	Find one lot of 4.	I have 4	Find ten lots of 8.
I have 80	Find the product of 4 and 20	I have 80	Find eleven lots of four.
I have 44	Halve 42.	I have 21	What is the product of 8 and 9?
I have 72	Double 33.	I have 66	Double 50.



Instructions and ideas on how to use this resource:

You may wish to laminate these cards or mount them on card so that they can be re-used.

Cut up the cards and give one to each child in the class. Make sure that they have been shuffled so that children have to listen carefully for their turn.

There are thirty cards so you can add challenge by allocating two cards to one child if there are any spare or take part yourself!

Add further challenge and excitement by timing how long it takes for your class to complete the loop, and challenge them to beat it. You can use the Teachit Timer.

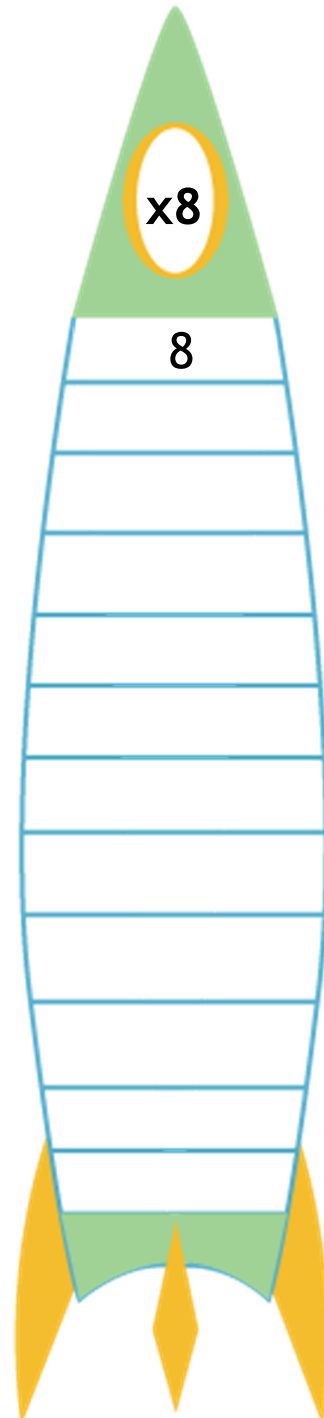
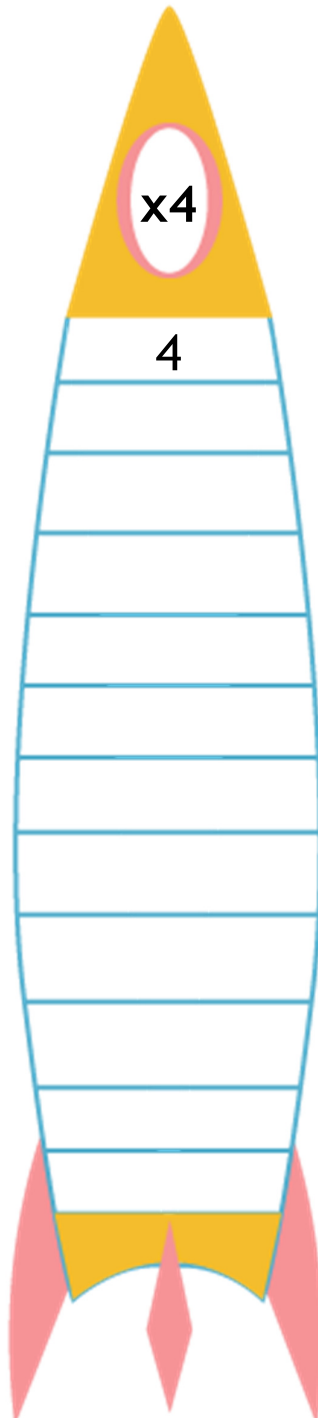
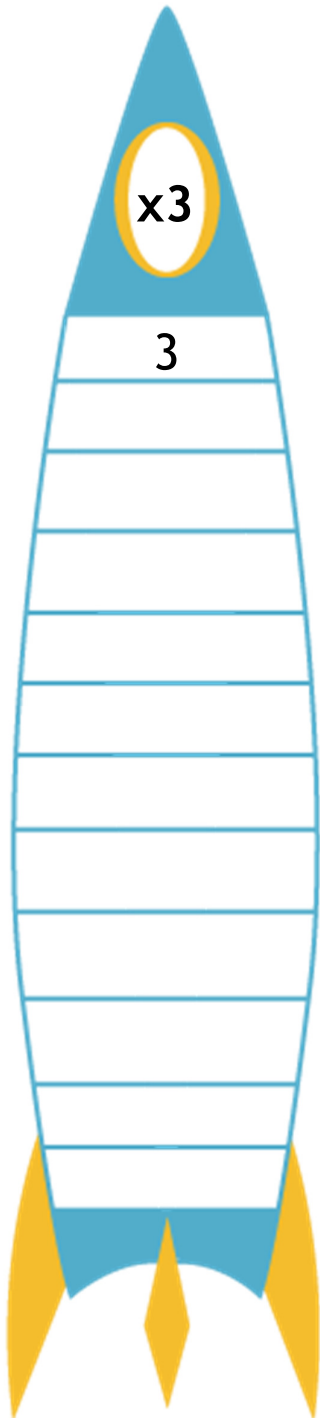
Alternatively this can be played in groups of 2-4 with the cards shared between the players and played on a table or floor making a chain like in dominoes.

Name:

Date:.....

Counting in steps of 3, 4 and 8

Complete each rocket by counting in steps of 3, 4 and 8.



Name:

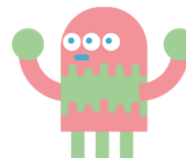
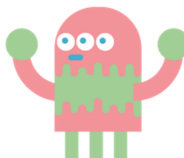
Date:.....

I can recall my three times tables

Draw 3 legs on each alien to help you work out the 3 times table.

Example:

$$\boxed{3} \times \boxed{2} = \boxed{6}$$



1.

$$\boxed{} \times \boxed{} = \boxed{}$$



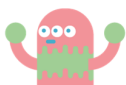
2.

$$\boxed{} \times \boxed{} = \boxed{}$$



3.

$$\boxed{} \times \boxed{} = \boxed{}$$



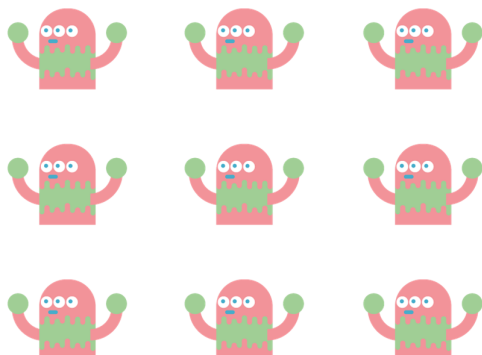
4.

$$\boxed{} \times \boxed{} = \boxed{}$$



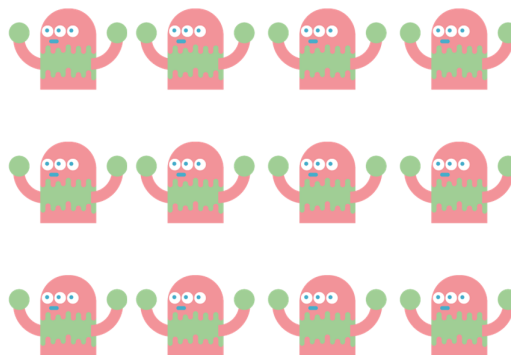
5.

$$\square \times \square = \square$$



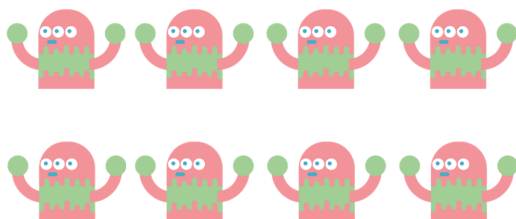
6.

$$\square \times \square = \square$$



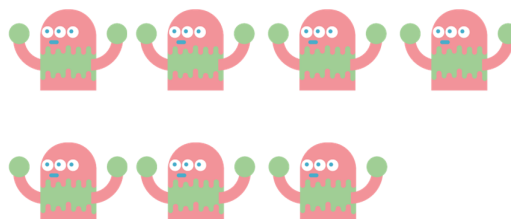
7.

$$\square \times \square = \square$$



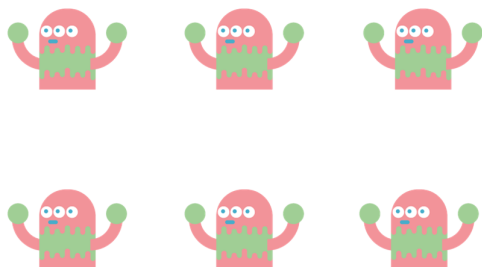
8.

$$\square \times \square = \square$$



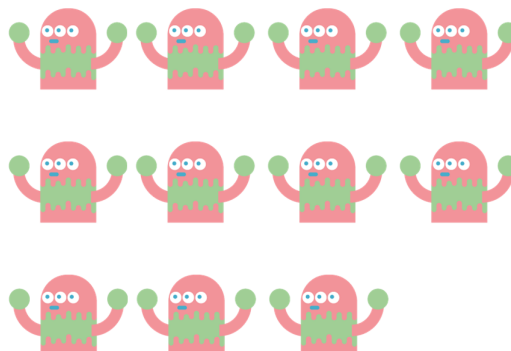
9.

$$\square \times \square = \square$$



10.

$$\square \times \square = \square$$



Name:

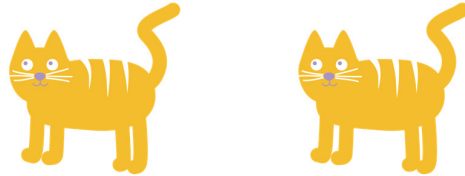
Date:.....

I can recall my four times tables

Draw 4 legs on each cat to help you work out the 4 times table.

Example:

$$\boxed{4} \times \boxed{2} = \boxed{8}$$



1.

$$\boxed{} \times \boxed{} = \boxed{}$$



2.

$$\boxed{} \times \boxed{} = \boxed{}$$



3.

$$\boxed{} \times \boxed{} = \boxed{}$$



4.

$$\boxed{} \times \boxed{} = \boxed{}$$



5.

$$\square \times \square = \square$$



6.

$$\square \times \square = \square$$



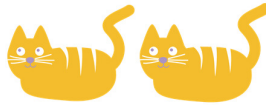
7.

$$\square \times \square = \square$$



8.

$$\square \times \square = \square$$



9.

$$\square \times \square = \square$$



10.

$$\square \times \square = \square$$



Name:

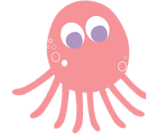
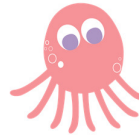
Date:.....

I can recall my eight times tables

Draw 8 legs on each octopus to help you work out the 8 times table.

Example:

$$\boxed{8} \times \boxed{2} = \boxed{16}$$



1.

$$\boxed{} \times \boxed{} = \boxed{}$$



2.

$$\boxed{} \times \boxed{} = \boxed{}$$



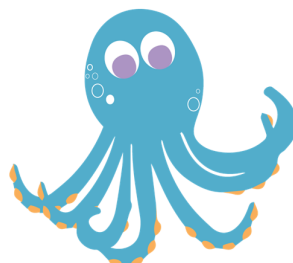
3.

$$\boxed{} \times \boxed{} = \boxed{}$$



4.

$$\boxed{} \times \boxed{} = \boxed{}$$



5.

$$\square \times \square = \square$$



6.

$$\square \times \square = \square$$



7.

$$\square \times \square = \square$$



8.

$$\square \times \square = \square$$



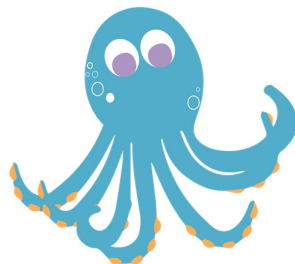
9.

$$\square \times \square = \square$$



10.

$$\square \times \square = \square$$



Name:

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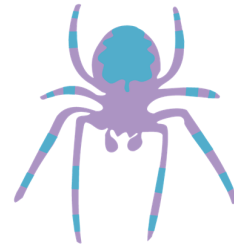
The witches' cauldron problem

Use your multiplication skills to solve the following problems and work systematically.

Bats have 2 legs.

Frogs have 4 legs.

Spiders have 8 legs.



1. Winnie the witch needs 12 legs to turn a child into a toad. How many different combinations of bats, frogs and spiders can she use?

Bats (2 legs)						
Frogs (4 legs)						
Spiders (8 legs)						
Total number of legs	12	12	12	12	12	12

2. Meg the witch needs 20 legs to turn twins into toads. How many different combinations of bats, frogs and spiders can she use?

Bats (2 legs)												
Frogs (4 legs)												
Spiders (8 legs)												
Total number of legs	20	20	20	20	20	20	20	20	20	20	20	20

Challenge

The Grand High Witch needs 24 legs to turn the teacher into a toad. How many different combinations of bats, frogs and spiders can she use?





Answers

Encourage children to work systematically to find all of the possibilities, modelling an example as necessary. For extra support, children can draw the creatures and count the legs.

1. Winnie the witch needs 12 legs to turn a child into a toad. How many different combinations of bats, frogs and spiders can she use?

Bats (2 legs)	6	4	2	2	0	0
Frogs (4 legs)	0	1	2	0	3	1
Spiders (8 legs)	0	0	0	1	0	1
Total number of legs	12	12	12	12	12	12

2. Meg the witch needs 20 legs to turn twins into toads. How many different combinations of bats, frogs and spiders can she use?

The following is a selection of answers. Others are possible.

Bats (2 legs)	10	8	6	6	4	4	2	2	2	0	0	0	10
Frogs (4 legs)	0	1	2	0	3	1	4	2	0	5	3	1	0
Spiders (8 legs)	0	0	0	1	0	1	0	1	2	0	1	2	0
Total number of legs	20	20	20	20	20	20	20	20	20	20	20	20	20

Challenge:

The Grand High Witch needs 24 legs to turn the teacher into a toad. How many different combinations of bats, frogs and spiders can she use?

The following is a selection of answers. Others are possible.

Bats (2 legs)	16	14	12	12	10	10	8	8	6	6	6	4	2	0	0	0
Frogs (4 legs)	0	1	2	0	3	1	4	2	5	3	1	6	7	8	2	0
Spiders (8 legs)	0	0	0	1	0	1	0	1	0	1	2	0	0	0	3	4
Total number of legs	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

Name:

Date:.....

Three, four and eight times multiplication problems

Set A

1. Work out the following sums. What do you notice? Explain your findings.

a. $3 \times 4 =$

$3 \times 8 =$

b. $4 \times 4 =$

$4 \times 8 =$

c. $3 \times 5 =$

$3 \times 10 =$

2. There are 6 spiders on a web. How many spiders' legs are there altogether?

3. Find the answer to 3×4 .

Now use this to help you to work out the answer to 13×4 .

4. Jack and Jill have 24 marbles.
Jack has twice as many marbles as Jill.
How many marbles does Jill have?

5. a. A bag holds 18 sweets and they are shared between 3 friends. How many sweets does each child receive?

- b. Write your own sharing story.

Three, four and eight times multiplication problems

6. Harriet is laying 72 slabs in rows of 8. How many rows will there be to form a rectangle?



7. The following can be solved with the calculation $12 \div 4 = 3$. True (T) or false (F)?

a. There are 12 children and four leave. How many are left?

b. There are 12 children arranged into four equal groups. How many children are in each group?

c. There are 12 sweets divided equally between four children. How many sweets do they each receive?

8. a. 32 children are organised into groups of 4. How many groups does this make?

b. Write your own grouping story.

- 9.a. Seats are organised in lines of 8. There are 12 rows. How many seats altogether?

b. How many more seats are needed to make 100?

- 10.a. Stephanie buys three magazines at £4 each and two sandwiches at £2 each. How much money does she spend altogether?



b. How much change will she receive from a £20 note?

Name:

Date:.....

Three, four and eight times multiplication problems

Set A

1. Work out the following sums. What do you notice? Explain your findings.

a. $3 \times 4 =$

$3 \times 8 =$

b. $4 \times 4 =$

$4 \times 8 =$

c. $3 \times 5 =$

$3 \times 10 =$

2. There are 6 spiders on a web. How many spiders' legs are there altogether?



3. Find the answer to 3×4 .

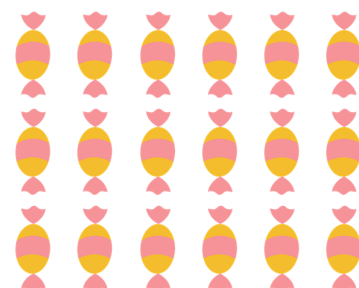
Now use this to help you to work out the answer to 13×4 .

4. Jack and Jill have 24 marbles.
Jack has twice as many marbles as Jill.
How many marbles does Jill have?



5. a. A bag holds 18 sweets and they are shared between 3 friends. How many sweets does each child receive?

- b. Write your own sharing story.



Three, four and eight times multiplication problems

6. Harriet is laying 72 slabs in rows of 8. How many rows will there be to form a rectangle?




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a. There are 12 children and four leave. How many are left?

b. There are 12 children arranged into four equal groups. How many children are in each group?

c. There are 12 sweets divided equally between four children. How many sweets do they each receive?

8. a. 32 children are organised into groups of 4. How many groups does this make?




b. Write your own grouping story.

- 9.a. Seats are organised in lines of 8. There are 12 rows. How many seats altogether?



b. How many more seats are needed to make 100?

- 10.a. Stephanie buys three magazines at £4 each and two sandwiches at £2 each. How much money does she spend altogether?



b. How much change will she receive from a £20 note?



Answers

1. Work out the following sums. What do you notice? Explain your findings.

a. $3 \times 4 = 12$

$3 \times 8 = 24$

b. $4 \times 4 = 16$

$4 \times 8 = 32$

c. $3 \times 5 = 15$

$3 \times 10 = 30$

In each of the second sums, the second number is double the first calculation's second number and therefore the answer to the second sum is double the first.

2. There are 6 spiders on a web. How many spiders' legs are there altogether?

$6 \times 8 = 48$ legs

3. Find the answer to 3×4 .

$3 \times 4 = 12$

Now use this to help you to work out the answer to 13×4 .

Hopefully children will be able to partition the sum into 10×4 and add 3×4 .

Otherwise they can work out 12×4 and add on a further 4 to make 52.

4. Jack and Jill have 24 marbles.

Jack has twice as many marbles as Jill.

How many marbles does Jill have?

Some children may approach this through trial and error, but some may recognise they need to divide the amount into three equal parts to enable Jack to have twice as many marbles as Jill.

A bar model can help demonstrate this

Jack  24 marbles $24 \div 3 = 8$, so Lynne has 8 marbles.

- 5.

- a. A bag holds 18 sweets and they are shared between 3 friends. How many sweets does each child receive?

$18 \div 3 = 6$

- b. Write your own sharing story.

Accept suitable answers.

6. Harriet is laying 72 slabs in rows of 8. How many rows will there be to form a rectangle?

$72 \div 8 = 9$

7. The following can be solved with the calculation $12 \div 4 = 3$. True (T) or false (F)?

- a. There are 12 children and four leave. How many are left? F, $12 - 4 = 8$

- b. There are 12 children arranged into four equal groups. How many children are in each group? T

- c. There are 12 sweets divided equally between four children. How many sweets do they each receive? T

8.

- a. 32 children are organised into groups of 4. How many groups does this make?

$32 \div 4 = 8$ groups

- b. Write your own grouping story.

Accept suitable answers.

9.

- a. Seats are organised in lines of 8. There are 12 rows. How many seats altogether?

$8 \times 12 = 96$

- b. How many more seats are needed to make 100?

$100 - 96 = 4$

10.

- a. Stephanie buys three magazines at £4 each and two sandwiches at £2 each. How much money does she spend altogether?

$£4 \times 3 = £12$, $£2 \times 2 = £4$ so $£12$ and $£4 = £16$

- b. How much change will she receive from a £20 note?

$£20 - £16 = £4$

Three, four and eight times multiplication challenge problems

Name: Date:.....

Three, four and eight multiplication challenge problems

1. Write these addition sums as multiplication sentences.

a. $4 + 4 + 4 + 8 =$

b. $3 + 3 + 3 + 3 + 2 + 4 =$

2. Which has the most pencils:

8 packets of pencils with 3 in
each packet

or

4 packets of pencils with 8 in
each packet?

Explain your reasoning.

.....
.....

3.a. There are 18 fizzy laces to be shared between 3 children. How many laces does each child receive?

b. Now write your own story for $32 \div 4$, and solve it.

4. Together Charlie and Dan have 48 football collector's cards.

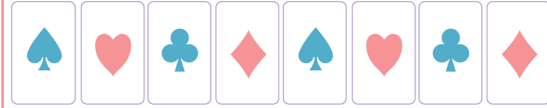
Charlie has three times as many cards as Dan.

How many cards does Charlie have?

Three, four and eight times multiplication challenge problems

5. A magician has 96 playing cards.

Using all of the cards, find three different ways she can arrange them to form three different rectangles.



6. Using the digits 1, 2 and 3, write them into the empty boxes below. How many different calculations can you make?

× =

- a. Which one gives the largest answer?

- b. Which one gives the smallest answer?

7. Find the answers to the following sums. What do you notice? Explain your findings.

a. $2 \times 4 =$

$4 \times 4 =$

b. $2 \times 40 =$

$4 \times 40 =$

c. $20 \times 40 =$

$40 \times 40 =$

d. $20 \times 4 \times 10 =$

$40 \times 4 \times 10 =$



Answers

1. Write these addition sums as multiplication sentences.

a. $4 + 4 + 4 + 8 = 4 \times 5 = 20$

b. $3 + 3 + 3 + 3 + 2 + 4 = 3 \times 5 = 15$

2. Which has the most pencils:

8 packets of pencils with 3 in each packet, or

4 packets of pencils with 8 in each packet?

Explain your reasoning.

$8 \times 3 = 24$, and $4 \times 8 = 32$, so the latter is larger.

- 3.a. There are 18 fizzy laces to be shared between 3 children. How many laces does each child receive?

$18 \div 3 = 6$

- b. Now write your own story for $32 \div 4$, and solve it.

Accept suitable answers, for example:

There are 32 children in a class. They are divided into 4 groups. How many children are there in each group?

$32 \div 4 = 8$ children

3. Together Charlie and Dan have 48 football collector's cards.

Charlie has three times as many cards as Dan.

How many cards does Charlie have?

Four equally sized piles are required, so $48 \div 4 = 12$. 12 has three times as many, so 36.

5. A magician has 96 playing cards.

Using all of the cards, find three different ways she can arrange them to form three different rectangles.

Possible answers:

8×12 , 12×8 , 24×4 , 48×2 , 32×3 , 1×96 , 6×16

6. Put the number cards 1, 2 and 3 in the empty boxes below. How many different calculations can you make?

Possible answers:

$12 \times 3 = 36$

$21 \times 3 = 63$ - the largest answer

$13 \times 2 = 26$

$31 \times 2 = 62$

$32 \times 1 = 32$

$23 \times 1 = 23$ - the smallest answer

8. Find the answers to the following sums. What do you notice? Explain your findings.

a. $2 \times 4 = 8$

$4 \times 4 = 16$

In the first two sets of sums the second sum is double the first.

b. $2 \times 40 = 80$

$4 \times 40 = 160$

In the second two sets of sums, the numbers work on powers of ten, so 20×40 is the same as $20 \times 4 \times 10$.

c. $20 \times 40 = 800$

$40 \times 40 = 1600$

d. $20 \times 4 \times 10 = 800$

$40 \times 4 \times 10 = 1600$

x6, x7, x9, x11 and x12 resources

A collection of worksheets, activities and problems to tackle the 6, 7, 9, 11 and 12 multiplication tables.

Follow me cards - all tables

Start card My number is 12	Multiply it by 4.	My number is 48	Divide it by 12.
My number is 4	Square it.	My number is 16	Divide it by 2.
My number is 8	Multiply it by 9.	My number is 72	Double it.
My number is 144	Find my square root.	My number is 12	Multiply it by 11.
My number is 132	Halve it.	My number is 66	Halve it.

<p>My number is</p> <p>33</p>	<p>Divide it by 3.</p>	<p>My number is</p> <p>11</p>	<p>Multiply it by 10.</p>
<p>My number is</p> <p>110</p>	<p>Halve it.</p>	<p>My number is</p> <p>55</p>	<p>Divide it by 11.</p>
<p>My number is</p> <p>5</p>	<p>Multiply it by 4.</p>	<p>My number is</p> <p>20</p>	<p>Divide it by 2.</p>
<p>My number is</p> <p>10</p>	<p>Multiply it by 7.</p>	<p>My number is</p> <p>70</p>	<p>Halve it.</p>
<p>My number is</p> <p>35</p>	<p>Divide it by 5.</p>	<p>My number is</p> <p>7</p>	<p>Square it.</p>

My number is 49	Double it.	My number is 108	Divide it by 12.
My number is 9	Multiply it by 6.	My number is 54	Halve it.
My number is 27	Divide it by 9.	My number is 3	Multiply it by 12.
My number is 36	Halve it.	My number is 18	Divide it by 6.
My number is 3	Double it.	My number is 6	Multiply it by 2.



Instructions and ideas on how to use this resource:

You may wish to laminate these cards or mount them on card so that they can be re-used.

Cut up the cards and give a card to each child in the class. Make sure that they have been shuffled so that children have to listen carefully for their turn.

There are thirty cards so you can add a challenge by allocating two cards to one child if there are any spare *or* take part yourself!

Add a further challenge and some excitement by timing how long it takes for your class to complete the loop, and challenge them to beat it. You can use the Teachit Timer.

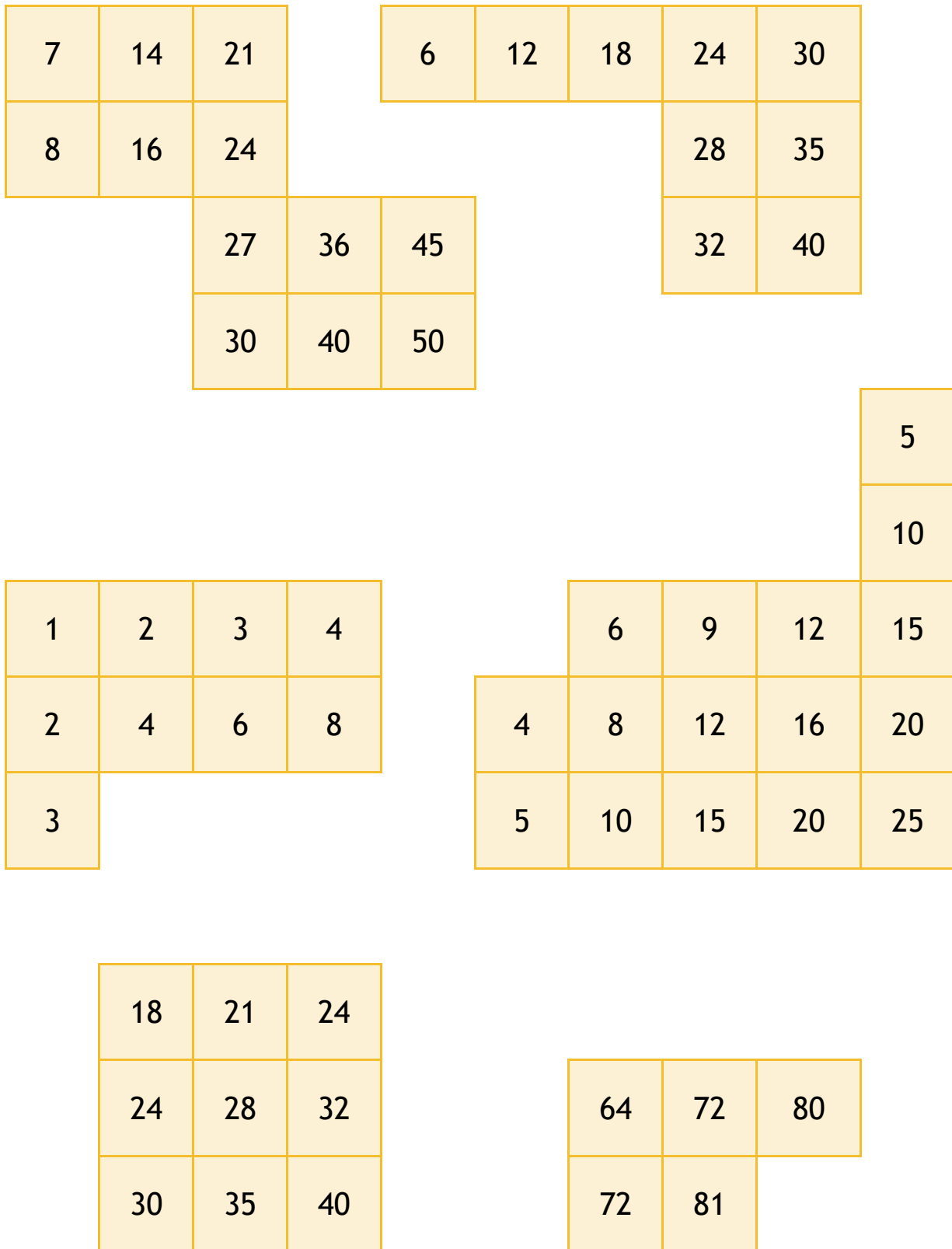
Alternatively this can be played in groups of 2-4 with the cards shared between the players and played on a table or floor making a chain like in dominoes.

Name:

Date:.....

Multiplication jigsaw

Cut out the jigsaw pieces and complete the multiplication grid.



54	63			90
60	70	80	90	100

9	18
10	20

36	42	48	54	60
42	49	56	63	70
48	56			

6	7	8	9	10
12	14	16	18	20
			27	30
			36	40
			45	50

Name:

Date:

I can count in steps of 6, 7, 9, 11 and 12

Complete the following number sequences.

x6													
		12	18									66	

x7													
			21	28								70	

x9													
									72	81			

x11													
					55	66							

x12													
								84	96				

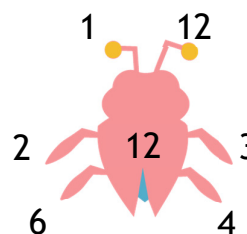
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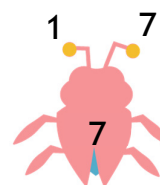
Factor bugs

Write the number to be explored on the bug's body. Write the 'easy factors' on its antennae, e.g. 1 and 12. Now write any further pairs of factors on either side of the bug's body, so 2 and 6, 3 and 4. You have now found all of the factors of 12!

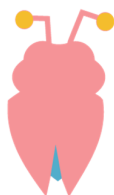
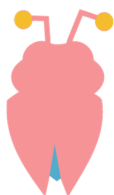
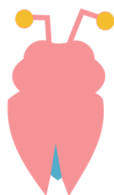
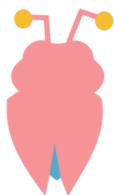
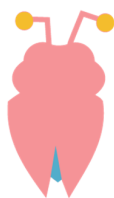
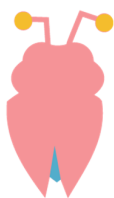
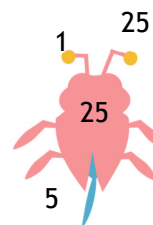
The factors of 12 are 1, 2, 3, 4, 6 and 12.



Remember not all bugs will have more than one pair of factors and these are **prime numbers**.



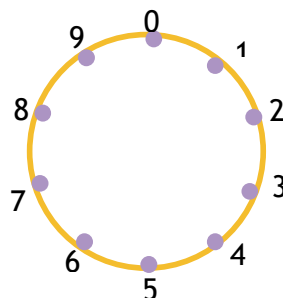
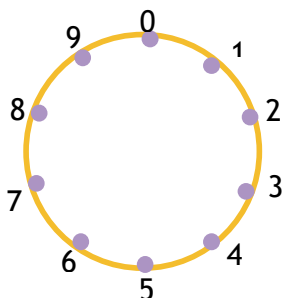
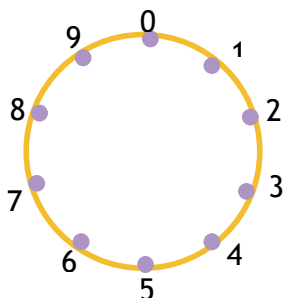
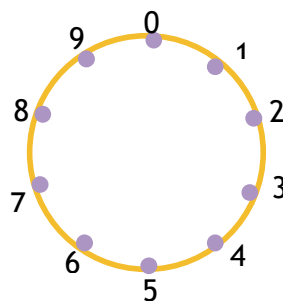
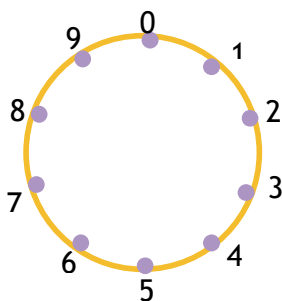
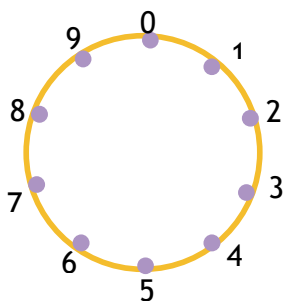
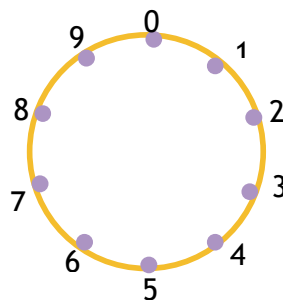
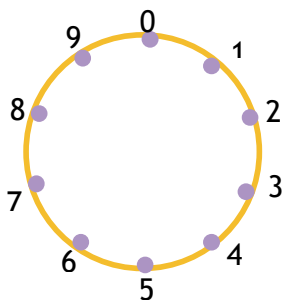
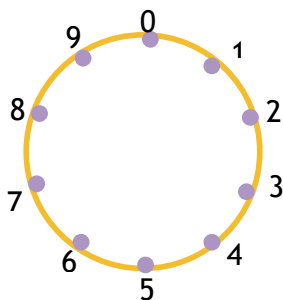
Some numbers have a number which can be squared to give the product, for example $5^2 = 25$. Give these bugs a tail and write 5 to avoid repeating the factor.



Multiplication circles are a great way to explore number patterns.

0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40,
44, 48

Now repeat the process above and investigate your own multiplications. What patterns can you see? Work with a partner to discuss them.





Teacher's notes

Multiplication circles are a useful introduction to rules of divisibility. Children will find their own patterns, but the following points are useful to draw out.

x2, x8 and x 12 tables

The pattern will keep repeating itself as the answers are always even and end in 0,2,4,6 or 8.

x4 and x6 tables

Shown in example and always ends with an even number. Both make the same pattern.

x5 table

Will be a vertical line, as the multiplication table always ends in a 5 or a 0.

x7 table

Will make a more complex pattern and join to all digit points. The starting point is an odd number.

x9 table

As the sum of the digits always total 9, the pattern joins to each point in the circle counting down 9,8,7,6,5 and so on.

x10 table

Will repeat at zero as multiples of 10 always end with this digit.

x11 table

Makes the same pattern as the x9 due to the repeated digit pattern of the table, so it will join to each point in the circle counting up.

Name:

Date:.....

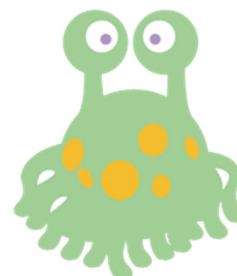
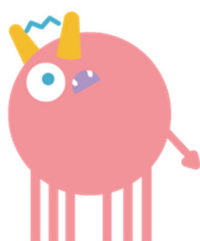
Aliens problem

Remember to work logically and find all possibilities.

Zigs have 3 legs.

Zogs have 6 legs.

Zags have 12 legs.



1. To make the Factor One spaceship fly, there must be exactly 18 alien legs on board. How many different combinations of Zigs, Zogs and Zags can fly?

Zigs (3 legs)						
Zogs (6 legs)						
Zags (12 legs)						
Total number of legs	18	18	18	18	18	18

2. To make the Factor Two spaceship fly, there must be exactly 24 alien legs on board. How many different combinations of Zigs, Zogs and Zags can fly?

Zigs (3 legs)									
Zogs (6 legs)									
Zags (12 legs)									
Total number of legs	24	24	24	24	24	24	24	24	24

Challenge

To make the Factor Three spaceship fly, there must be exactly 36 alien legs on board. How many different combinations of Zigs, Zogs and Zags can fly?





Answers

1. To make the Factor One spaceship fly, there needs to be exactly 18 alien legs on board. How many different combinations of Zigs, Zogs and Zags can fly?

Zigs (3 legs)	6	4	2	2	0	0
Zogs (6 legs)	0	1	2	0	3	1
Zags (12 legs)	0	0	0	1	0	1
Total number of legs	18	18	18	18	18	18

2. To make the Factor Two spaceship fly, there needs to be exactly 24 alien legs on board. How many different combinations of Zigs, Zogs and Zags can fly?

Zigs (3 legs)	8	6	4	4	2	2	0	0	0
Zogs (6 legs)	0	1	2	0	3	1	4	2	0
Zags (12 legs)	0	0	0	1	0	1	0	1	2
Total number of legs	24	24	24	24	24	24	24	24	24

3. To make the Factor Three spaceship fly, there needs to be exactly 36 alien legs on board. How many different combinations of Zigs, Zogs and Zags can fly?

Zigs (3 legs)	12	10	8	8	6	6	4	4	4	2	2	2	0	0	0	0
Zogs (6 legs)	0	1	2	0	3	1	4	2	0	5	3	1	6	4	2	0
Zags (12 legs)	0	0	0	1	0	1	0	1	2	0	1	2	0	1	2	3
Total number of legs	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36

Name:

Date:.....

All multiplication tables problems

Set A

1. Work out the following calculations. Can you use one calculation to work out the answer to other calculations?

a. $6 \times 9 =$

f. $9 \times 8 =$

b. $6 \times 90 =$

g. $9 \times 80 =$

c. $6 \times 900 =$

h. $9 \times 800 =$

d. $60 \times 9 =$

i. $90 \times 8 =$

e. $600 \times 9 =$

j. $900 \times 8 =$

2. a. There are 121 chairs arranged in 11 rows. How many chairs are there in each row?



- b. Write your own division story using the following multiplication fact $5 \times 9 = 45$

3. Joel has 7 pennies in his pocket. Hannah has 3 times as many pennies in her pocket. How many pennies do they have altogether?

- 4.a. Three children calculate 12×11 in different ways.
Identify each strategy and complete the calculations.

Charles	Eddie	Fred used the commutative law
$12 \times 11 = 12 \times 10 + \dots =$	$12 \times 12 = 12 \times 12 - \dots =$	$12 \times 11 = \dots \times \dots =$
.....

- b. Now find the answer to 7×6 in three different ways.

- 5.a. There are nine stickers in each packet of collector stickers. If I have 8 packets, how many stickers do I have altogether?

- b. Write your own multiplication story using the following division fact $63 \div 7 = 9$

- 6.a. Pencils come in packs of 12. A school buys 12 packs. How many pencils are there altogether?

- b. There has been a mistake and the school needs an extra pack of pencils. How many pencils are there altogether now?

7. If a comic costs £1.20, how much do 10 comics cost?

8. If six mini-notepads cost £3.60, how much does one cost?



Name:

Date:.....

All multiplication tables problems

Set B

1. Work out the following calculations. Can you use one calculation to work out the answer to other calculations?

a. $6 \times 9 =$

f. $9 \times 8 =$

b. $6 \times 90 =$

g. $9 \times 80 =$

c. $6 \times 900 =$

h. $9 \times 800 =$

d. $60 \times 9 =$

i. $90 \times 8 =$

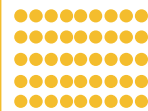
e. $600 \times 9 =$

j. $900 \times 8 =$

- 2.a. There are 121 chairs arranged in 11 rows. How many chairs are there in each row?



- b. Write your own division story using the following multiplication fact $5 \times 9 = 45$



3. Joel has 7 pennies in his pocket. Hannah has 3 times as many pennies in her pocket. How many pennies do they have altogether?



All multiplication tables challenge problems

- 4.a. Three children calculate 12×11 in different ways.
Identify each strategy and complete the calculations.

Charles	Eddie	Fred used the commutative law
$12 \times 11 = 12 \times 10 + \dots =$	$12 \times 12 = 12 \times 12 - \dots =$	$12 \times 11 = \dots \times \dots =$

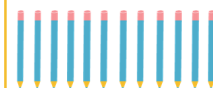
- b. Now find the answer to 7×6 in three different ways.

- 5.a. There are nine stickers in each packet of collector stickers. If I have 8 packets, how many stickers do I have altogether?



- b. Write your own multiplication story using the following division fact $63 \div 7 = 9$

- 6.a. Pencils come in packs of 12. A school buys 12 packs. How many pencils are there altogether?



- b. There has been a mistake and the school needs an extra pack of pencils. How many pencils are there altogether now?

7. If a comic costs £1.20, how much do 10 comics cost?



£1.20

8. If six mini-notepads cost £3.60, how much does one cost?







Answers

1. Work out the following calculations. Can you use one calculation to work out the answer to other calculations?

a. $6 \times 9 = 54$	f. $9 \times 8 = 72$
b. $6 \times 90 = 540$	g. $9 \times 80 = 720$
c. $6 \times 900 = 5400$	h. $9 \times 800 = 7200$
d. $60 \times 9 = 540$	i. $90 \times 8 = 720$
e. $600 \times 9 = 5400$	j. $900 \times 8 = 7200$
- 2a. There are 121 chairs arranged in 11 rows. How many chairs are there in each row?
 $121 \div 11 = 11$
- b. Write your own division story using the following multiplication fact $5 \times 9 = 45$
Accept suitable answers. For example, there are 45 cubs arranged into 5 groups. How many cubs are there in each group?
3. Joel has 7 pennies in his pocket. Hannah has 3 times as many pennies in her pocket. How many pennies do they have altogether?
 $7 \times 3 = 21$
Altogether, $21 + 7 = 28$
A bar model can help demonstrate this

Joel		}	$7 \times 4 = 28$ pennies
Hannah			
- 4a. Three children calculate 12×11 in different ways. Identify each strategy and complete the calculations.

Charles	Eddie	Fred used the commutative law
$12 \times 11 = 12 \times 10 + 12 = 132$	$12 \times 12 = 12 \times 12 - 12 = 132$	$12 \times 11 = 11 \times 12 = 132$
- b. Now find the answer to 7×6 in three different ways.

$7 \times 5 + 7 = 42$
$7 \times 7 - 7 = 42$
$6 \times 7 = 42$
- 5a. There are nine stickers in each packet of collector stickers. If I have 8 packets, how many stickers do I have altogether?
 $9 \times 8 = 72$ stickers
- b. Write your own multiplication story using the following division fact $63 \div 7 = 9$
Accept suitable answers. There are 9 rows of chairs and 7 chairs in each row. How many chairs are there altogether?
- 6a. Pencils come in packs of 12. A school buys 12 packs. How many pencils are there altogether?
 $12 \times 12 = 144$ pencils
- b. There has been a mistake and the school needs an extra pack of pencils. How many pencils are there altogether now?
 $12 \times 13 = 156$ pencils, or $144 + 12 = 156$
7. If a comic costs £1.20. How much do 10 comics cost?
 $£1.20 \times 10 = £12.00$
8. If six mini-notepads cost £3.60. How much does one cost?
 $£3.60 \div 6 = 60p$ or $£0.60$

Name: Date:.....

All multiplication tables challenge problems

1. Write these addition sums as multiplication sentences.

a. $6 + 6 + 6 + 3 + 3 =$

b. $12 + 12 + 6 + 6 =$

c. $4 + 4 + 8 =$

2. a. There are 144 fizzy laces to be shared between 8 children. How many laces does each child receive?

b. Now write your own story for $72 \div 9$, and solve it.

3. Together Louis and Tommy have 132 stickers.

Louis has ten times as many stickers as Tommy.

How many stickers does Louis have?

How many more stickers does Louis have than Tommy?

4.a. Organic grapefruits cost 80p. Jeremy would like to buy 11. How much money does he spend?

b. How much will 13 grapefruits cost him?

5. There are 100 paving slabs. Find at least three different ways for these to be arranged in three different rectangles.

6. Place one of these symbols in the circle to make the following number sentences correct:

< > =		
a. 7×60		60×7
b. 7×60		70×6
c. 700×4		4×200

Explain your reasoning.



.....

.....



Answers

- Write these addition sums as multiplication sentences.
 - $6 + 6 + 6 + 3 + 3 = 6 \times 4$
 - $12 + 12 + 6 + 6 = 12 \times 3$
 - $4 + 4 + 8 = 4 \times 4$
- There are 144 fizzy laces to be shared between 8 children. How many laces does each child receive?
 $144 \div 2 = 72$
 $72 \div 2 = 36$
 $36 \div 2 = 18$
18 fizzy laces
 - Now write your own story for $72 \div 9$, and solve it.
Accept suitable answers. There are 72 marbles to divide between 9 children. How many marbles will each child receive?
 $72 \div 9 = 8$
- Together Louis and Tommy have 132 stickers.
 Louis has ten times as many stickers as Tommy.
 How many stickers does Louis have?
 How many more stickers does Louis have than Tommy?
 $132 \div 11 = 12$ $10 \times 12 = 120$ so Louis has 120 stickers, 108 more than Tommy.

Louis		} 132 stickers
Tommy		
- Organic grapefruits cost 80p. Jeremy would like to buy 11. How much money does he spend?
 $80p \times 11 = 880p$ or £8.80
 - How much will 13 grapefruits cost him?
 $80 \times 12 = 960p$
 $960 + 80 = 1040p = £10.40$
- There are 100 paving slabs. Find at least three different ways for these to be arranged in three different rectangles.
 100×1 50×2 25×4 20×5 10×10
- Place one of these symbols in the circle to make the following number sentences correct:

	<	>	=
a. 7×60			$=$
b. 7×60			$=$
c. 700×4		$>$	

Explain your reasoning.

The first two pair of sums are commutative, but the final pair of sums is not.

Individual times table assessment sheets



Two times table and division facts



Name:

Date:

$2 \times 4 =$

$10 \times 2 =$

$2 \times 8 =$

$3 \times 2 =$

$2 \times 1 =$

$2 \times 2 =$

$12 \times 2 =$

$5 \times 2 =$

$11 \times 2 =$

$7 \times 2 =$

$2 \times 9 =$

$2 \times 6 =$

Time taken:



Name:

Date:

$20 \div 2 =$

$14 \div 2 =$

$6 \div 2 =$

$4 \div 2 =$

$16 \div 2 =$

$10 \div 2 =$

$24 \div 2 =$

$22 \div 2 =$

$2 \div 2 =$

$12 \div 2 =$

$18 \div 2 =$

$8 \div 2 =$

Time taken:



Name:

Date:

$2 \times 4 =$

$14 \div 2 =$

$2 \times 6 =$

$10 \div 2 =$

$7 \times 2 =$

$2 \times \underline{\quad} = 4$

$\underline{\quad} \times 2 = 20$

$2 \div 2 =$

$1/2 \text{ of } 12 =$

$8 \div 2 =$

$2 \times 8 =$

$2 \times 9 =$

$20 \div 2 =$

$2 \times \underline{\quad} = 18$

$2 \times 1 =$

$\text{Double } 2 =$

$2 \times 10 =$

$12 \div 2 =$

$\underline{\quad} \div 2 = 12$

$22 \div 2 =$

$6 \div 2 =$

$4 \times 2 =$

$11 \times 2 =$

$12 \times 2 =$

Time taken:

Three times table and division facts



Name:

Date:

$3 \times 4 =$

$10 \times 3 =$

$3 \times 8 =$

$3 \times 2 =$

$3 \times 1 =$

$3 \times 3 =$

$12 \times 3 =$

$5 \times 3 =$

$11 \times 3 =$

$7 \times 3 =$

$3 \times 9 =$

$3 \times 6 =$

Time taken:



Name:

Date:

$30 \div 3 =$

$24 \div 3 =$

$6 \div 3 =$

$36 \div 3 =$

$15 \div 3 =$

$21 \div 3 =$

$9 \div 3 =$

$33 \div 3 =$

$3 \div 3 =$

$12 \div 3 =$

$18 \div 3 =$

$27 \div 3 =$

Time taken:



Name:

Date:

$3 \times 4 =$

$12 \div 3 =$

$__ \times 3 = 15$

$_ \div 3 = 9$

$7 \times 3 =$

$3 \times 3 =$

$10 \times 3 =$

$3 \div _ = 1$

$24 \div 3 =$

$9 \div 3 =$

$3 \times 8 =$

$3 \times 9 =$

$30 \div 3 =$

$6 \times __ = 18$

$18 \div 3 =$

$1 \times 3 =$

$21 \div 3 =$

$15 \div 3 =$

$_ \div 3 = 12$

$33 \div 3 =$

$\frac{1}{2} \text{ of } 6 =$

Double 3 =

$__ \times 3 = 33$

$12 \times 3 =$

Time taken:

Four times table and division facts



Name:

Date:

$3 \times 4 =$

$10 \times 4 =$

$4 \times 8 =$

$4 \times 2 =$

$4 \times 1 =$

$4 \times 4 =$

$12 \times 4 =$

$5 \times 4 =$

$11 \times 4 =$

$7 \times 4 =$

$4 \times 9 =$

$4 \times 6 =$

Time taken:



Name:

Date:

$40 \div 4 =$

$24 \div 4 =$

$32 \div 4 =$

$48 \div 4 =$

$4 \div 4 =$

$28 \div 4 =$

$16 \div 4 =$

$20 \div 4 =$

$36 \div 4 =$

$12 \div 4 =$

$8 \div 4 =$

$44 \div 4 =$

Time taken:



Name:

Date:

$28 \div 4 =$

$16 \div 4 =$

$4 \div 4 =$

$4 \times _ = 16$

$_ \div 4 = 6$

Double 4 =

$44 \div 4 =$

$5 \times 4 =$

$11 \times 4 =$

$7 \times 4 =$

$4 \times 9 =$

$12 \div 4 =$

$40 \div 4 =$

$_ \times 4 = 4$

$_ \div 4 = 8$

$48 \div _ = 12$

$4 \times 8 =$

$3 \times 4 =$

$10 \times 4 =$

$20 \div 4 =$

$36 \div 4 =$

$\frac{1}{2} \text{ of } 8 =$

$4 \times 6 =$

$12 \times 4 =$

Time taken:

Five times table and division facts



Name:

Date:

$5 \times 4 =$

$10 \times 5 =$

$5 \times 8 =$

$3 \times 5 =$

$5 \times 1 =$

$5 \times 5 =$

$12 \times 5 =$

$5 \times 2 =$

$11 \times 5 =$

$7 \times 5 =$

$5 \times 9 =$

$5 \times 6 =$

Time taken:



Name:

Date:

$50 \div 5 =$

$10 \div 5 =$

$40 \div 5 =$

$5 \div 5 =$

$30 \div 5 =$

$20 \div 5 =$

$55 \div 5 =$

$25 \div 5 =$

$45 \div 5 =$

$15 \div 5 =$

$35 \div 5 =$

$60 \div 5 =$

Time taken:



Name:

Date:

$5 \times 4 =$

$25 \div 5 =$

$5 \times 10 =$

$10 \div 5 =$

$7 \times 5 =$

$5 \times \underline{\quad} = 25$

$\underline{\quad} \times 5 = 40$

$5 \div 5 =$

$1/2 \text{ of } 10 =$

$20 \div 5 =$

$5 \times 8 =$

$5 \times 9 =$

$15 \div 5 =$

$5 \times \underline{\quad} = 45$

$5 \times \underline{\quad} = 15$

$\text{Double } 5 =$

$\underline{\quad} \div 5 = 12$

$30 \div 5 =$

$\underline{\quad} \div 5 = 10$

$6 \times 5 =$

$35 \div 5 =$

$55 \div 5 =$

$11 \times 5 =$

$12 \times 5 =$

Time taken:

Six times table and division facts



Name:

Date:

$6 \times 4 =$

$10 \times 6 =$

$6 \times 8 =$

$6 \times 2 =$

$6 \times 1 =$

$6 \times 6 =$

$12 \times 6 =$

$5 \times 6 =$

$11 \times 6 =$

$7 \times 6 =$

$6 \times 9 =$

$3 \times 6 =$

Time taken:

----- ✂ -----



Name:

Date:

$60 \div 6 =$

$48 \div 6 =$

$12 \div 6 =$

$72 \div 6 =$

$30 \div 6 =$

$42 \div 6 =$

$18 \div 6 =$

$66 \div 6 =$

$6 \div 6 =$

$24 \div 6 =$

$36 \div 6 =$

$54 \div 6 =$

Time taken:

----- ✂ -----



Name:

Date:

$6 \times 4 =$

$18 \div 6 =$

$7 \times 6 =$

$60 \div 6 =$

$36 \div _ = 6$

$66 \div 6 =$

$12 \times 6 =$

$54 \div 6 =$

$_ \times 6 = 66$

$6 \times 8 =$

$6 \times 9 =$

$3 \times 6 =$

$6 \times 1 =$

$_ \div 6 = 8$

$\frac{1}{2} \text{ of } 12 =$

$_ \div 6 = 12$

$30 \div 6 =$

$42 \div 6 =$

$10 \times 6 =$

$6 \times _ = 36$

$6 \div 6 =$

$24 \div 6 =$

Double 6 =

$5 \times 6 =$

Time taken:

Seven times table and division facts



Name:

Date:

$7 \times 4 =$

$10 \times 7 =$

$7 \times 8 =$

$7 \times 2 =$

$7 \times 1 =$

$3 \times 7 =$

$12 \times 7 =$

$5 \times 7 =$

$11 \times 7 =$

$7 \times 7 =$

$7 \times 9 =$

$7 \times 6 =$

Time taken:

----- ✂ -----



Name:

Date:

$70 \div 7 =$

$42 \div 7 =$

$56 \div 7 =$

$28 \div 7 =$

$84 \div 7 =$

$14 \div 7 =$

$21 \div 7 =$

$7 \div 7 =$

$63 \div 7 =$

$35 \div 7 =$

$49 \div 7 =$

$77 \div 7 =$

Time taken:

----- ✂ -----



Name:

Date:

$7 \times 4 =$

$7 \times 1 =$

$__ \div 7 = 5$

$77 \div 7 =$

$49 \div __ = 7$

$3 \times 7 =$

$__ \times 7 = 84$

$84 \div 7 =$

$11 \times 7 =$

$7 \times 7 =$

$7 \times 9 =$

$__ \times 7 = 42$

$\frac{1}{2} \text{ of } 14 =$

$42 \div 7 =$

$56 \div 7 =$

$28 \div 7 =$

$5 \times 7 =$

$70 \div 7 =$

$21 \div 7 =$

$__ \div 7 = 1$

$__ \div 7 = 9$

$7 \times 8 =$

$10 \times 7 =$

Double 7 =

Time taken:

Eight times table and division facts



Name:

Date:

$8 \times 4 =$

$10 \times 8 =$

$3 \times 8 =$

$8 \times 2 =$

$8 \times 1 =$

$8 \times 8 =$

$12 \times 8 =$

$5 \times 8 =$

$11 \times 8 =$

$7 \times 8 =$

$8 \times 9 =$

$8 \times 6 =$

Time taken:



Name:

Date:

$80 \div 8 =$

$48 \div 8 =$

$56 \div 8 =$

$72 \div 8 =$

$8 \div 8 =$

$64 \div 8 =$

$16 \div 8 =$

$88 \div 8 =$

$96 \div 8 =$

$24 \div 8 =$

$40 \div 8 =$

$32 \div 8 =$

Time taken:



Name:

Date:

$8 \times 4 =$

$10 \times 8 =$

$3 \times 8 =$

Double 8 =

$8 \times 1 =$

$__ \times 8 = 64$

$__ \times 8 = 96$

$5 \times 8 =$

$\frac{1}{2} \text{ of } 8 =$

$7 \times 8 =$

$8 \times __ = 72$

$8 \times 6 =$

$__ \div 8 = 10$

$48 \div 8 =$

$56 \div 8 =$

$72 \div 8 =$

$8 \div 8 =$

$64 \div 8 =$

$11 \times 8 =$

$88 \div 8 =$

$__ \div 8 = 12$

$24 \div 8 =$

$40 \div 8 =$

$32 \div 8 =$

Time taken:

Nine times table and division facts



Name:

Date:

$9 \times 4 =$

$10 \times 9 =$

$9 \times 8 =$

$9 \times 2 =$

$9 \times 1 =$

$3 \times 9 =$

$12 \times 9 =$

$5 \times 9 =$

$11 \times 9 =$

$7 \times 9 =$

$9 \times 9 =$

$9 \times 6 =$

Time taken:



Name:

Date:

$90 \div 9 =$

$72 \div 9 =$

$63 \div 9 =$

$108 \div 9 =$

$18 \div 9 =$

$54 \div 9 =$

$27 \div 9 =$

$99 \div 9 =$

$9 \div 9 =$

$36 \div 9 =$

$45 \div 9 =$

$81 \div 9 =$

Time taken:



Name:

Date:

$9 \times 4 =$

$__ \times 9 = 90$

$9 \times 9 =$

$90 \div 9 =$

$36 \div 9 =$

$81 \div __ = 9$

$12 \times __ = 108$

$5 \times 9 =$

$11 \times 9 =$

$54 \div 9 =$

$__ \div 9 = 7$

$9 \times 6 =$

$\text{Double } 9 =$

$9 \times 8 =$

$45 \div 9 =$

$108 \div 9 =$

$\frac{1}{2} \text{ of } 18 =$

$7 \times 9 =$

$27 \div 9 =$

$__ \div 9 = 11$

$9 \div 9 =$

$9 \times 1 =$

$72 \div 9 =$

$3 \times 9 =$

Time taken:

Ten times table and division facts



Name:

Date:

$10 \times 4 =$

$5 \times 10 =$

$10 \times 8 =$

$3 \times 10 =$

$10 \times 1 =$

$10 \times 10 =$

$12 \times 10 =$

$10 \times 2 =$

$11 \times 10 =$

$7 \times 10 =$

$10 \times 9 =$

$10 \times 6 =$

Time taken:



Name:

Date:

$100 \div 10 =$

$120 \div 10 =$

$80 \div 10 =$

$30 \div 10 =$

$70 \div 10 =$

$20 \div 10 =$

$10 \div 10 =$

$50 \div 10 =$

$90 \div 10 =$

$40 \div 10 =$

$110 \div 10 =$

$60 \div 10 =$

Time taken:



Name:

Date:

$10 \times 4 =$

$100 \div 10 =$

$6 \times 10 =$

$50 \div 10 =$

$7 \times 10 =$

$10 \times \underline{\quad} = 90$

$20 \div 10 =$

$10 \div 10 =$

$1/2 \text{ of } 20 =$

$\underline{\quad} \times 10 = 70$

$10 \times 8 =$

$10 \times 9 =$

$30 \div 3 =$

$10 \times \underline{\quad} = 80$

$10 \times 10 =$

$\text{Double } 10 =$

$\underline{\quad} \div 10 = 12$

$30 \div 10 =$

$\underline{\quad} \div 10 = 5$

$110 \div 10 =$

$60 \div 10 =$

$10 \times \underline{\quad} = 40$

$10 \times 5 =$

$10 \times 12 =$

Time taken:

Eleven times table and division facts



Name:

Date:

$11 \times 4 =$

$10 \times 11 =$

$11 \times 8 =$

$11 \times 2 =$

$11 \times 1 =$

$11 \times 11 =$

$12 \times 11 =$

$5 \times 11 =$

$3 \times 11 =$

$7 \times 11 =$

$11 \times 9 =$

$11 \times 6 =$

Time taken:



Name:

Date:

$110 \div 11 =$

$33 \div 11 =$

$66 \div 11 =$

$121 \div 11 =$

$44 \div 11 =$

$22 \div 11 =$

$99 \div 11 =$

$55 \div 11 =$

$88 \div 11 =$

$132 \div 11 =$

$11 \div 11 =$

$77 \div 11 =$

Time taken:



Name:

Date:

$11 \times 4 =$

$44 \div 11 =$

$11 \div \underline{\quad} = 11$

$\underline{\quad} \div 11 = 7$

$11 \times 1 =$

$132 \div 11 =$

$12 \times 11 =$

$11 \times \underline{\quad} = 55$

$3 \times 11 =$

$\frac{1}{2} \text{ of } 22 =$

$11 \times 9 =$

$11 \times 6 =$

$110 \div 11 =$

$33 \div 11 =$

$66 \div 11 =$

$121 \div 11 =$

$\underline{\quad} \times 11 = 110$

$7 \times 11 =$

$99 \div 11 =$

$55 \div 11 =$

$88 \div 11 =$

$\underline{\quad} \times 11 = 121$

$11 \times 8 =$

$\text{Double } 11 =$

Time taken:

Twelve times table and division facts



Name:

Date:

$12 \times 4 =$

$10 \times 12 =$

$12 \times 8 =$

$12 \times 2 =$

$12 \times 1 =$

$6 \times 12 =$

$12 \times 12 =$

$5 \times 12 =$

$11 \times 12 =$

$7 \times 12 =$

$12 \times 9 =$

$3 \times 12 =$

Time taken:



Name:

Date:

$120 \div 12 =$

$96 \div 12 =$

$24 \div 12 =$

$144 \div 12 =$

$60 \div 12 =$

$48 \div 12 =$

$36 \div 12 =$

$132 \div 12 =$

$12 \div 12 =$

$48 \div 12 =$

$72 \div 12 =$

$108 \div 12 =$

Time taken:



Name:

Date:

$12 \times 4 =$

$72 \div 12 =$

$12 \times \underline{\quad} = 96$

$\text{Double } 12 =$

$12 \times 1 =$

$\underline{\quad} \div 12 = 4$

$108 \div 12 =$

$48 \div 12 =$

$60 \div 12 =$

$12 \times \underline{\quad} = 84$

$12 \times 9 =$

$3 \times 12 =$

$120 \div 12 =$

$96 \div 12 =$

$\frac{1}{2} \text{ of } 24 =$

$144 \div \underline{\quad} = 12$

$11 \times 12 =$

$5 \times 12 =$

$36 \div 12 =$

$132 \div 12 =$

$12 \div 12 =$

$6 \times 12 =$

$\underline{\quad} \times 12 = 120$

$12 \times 12 =$

Time taken:

Individual times table answer sheets



Two times table sheet

$2 \times 4 = 8$	$10 \times 2 = 20$	$2 \times 8 = 16$
$3 \times 2 = 6$	$2 \times 1 = 2$	$2 \times 2 = 4$
$12 \times 2 = 24$	$5 \times 2 = 10$	$11 \times 2 = 22$
$7 \times 2 = 14$	$2 \times 9 = 18$	$2 \times 6 = 12$

$20 \div 2 = 10$	$14 \div 2 = 7$	$6 \div 2 = 3$
$4 \div 2 = 2$	$16 \div 2 = 8$	$10 \div 2 = 5$
$24 \div 2 = 12$	$22 \div 2 = 11$	$2 \div 2 = 1$
$12 \div 2 = 6$	$18 \div 2 = 9$	$8 \div 2 = 4$

$2 \times 4 = 8$	$14 \div 2 = 7$	$2 \times 6 = 12$	$20 \div 2 = 10$	$2 \times 9 = 18$	$2 \times 1 = 2$
$10 \div 2 = 5$	$7 \times 2 = 14$	$2 \times 2 = 4$	Double 2 = 4	$2 \times 10 = 20$	$12 \div 2 = 6$
$10 \times 2 = 20$	$2 \div 2 = 1$	$\frac{1}{2}$ of 12 = 6	$24 \div 2 = 12$	$22 \div 2 = 11$	$6 \div 2 = 3$
$8 \div 2 = 4$	$2 \times 8 = 16$	$2 \times 9 = 18$	$4 \times 2 = 8$	$11 \times 2 = 22$	$12 \times 2 = 24$

Three times table sheet

$3 \times 4 = 12$	$10 \times 3 = 30$	$3 \times 8 = 24$
$3 \times 2 = 6$	$3 \times 1 = 3$	$3 \times 3 = 9$
$12 \times 3 = 36$	$5 \times 3 = 15$	$11 \times 3 = 33$
$7 \times 3 = 21$	$3 \times 9 = 27$	$3 \times 6 = 18$

$30 \div 3 = 10$	$24 \div 3 = 8$	$6 \div 3 = 2$
$36 \div 3 = 12$	$15 \div 3 = 5$	$21 \div 3 = 7$
$9 \div 3 = 3$	$33 \div 3 = 11$	$3 \div 3 = 1$
$12 \div 3 = 4$	$18 \div 3 = 6$	$27 \div 3 = 9$

$3 \times 4 = 12$	$12 \div 3 = 4$	$5 \times 3 = 15$	$30 \div 3 = 10$	$6 \times 3 = 18$	$18 \div 3 = 6$
$27 \div 3 = 9$	$7 \times 3 = 21$	$3 \times 3 = 9$	$1 \times 3 = 3$	$21 \div 3 = 7$	$15 \div 3 = 5$
$10 \times 3 = 30$	$3 \div 3 = 1$	$24 \div 3 = 8$	$36 \div 3 = 12$	$33 \div 3 = 11$	$\frac{1}{2}$ of 6 = 3
$9 \div 3 = 3$	$3 \times 8 = 24$	$3 \times 9 = 27$	Double 3 = 6	$11 \times 3 = 33$	$12 \times 3 = 36$

Four times table sheet

$3 \times 4 = 12$	$10 \times 4 = 40$	$4 \times 8 = 32$
$4 \times 2 = 8$	$4 \times 1 = 4$	$4 \times 4 = 16$
$12 \times 4 = 48$	$5 \times 4 = 20$	$11 \times 4 = 44$
$7 \times 4 = 28$	$4 \times 9 = 36$	$4 \times 6 = 24$

$40 \div 4 = 10$	$24 \div 4 = 6$	$32 \div 4 = 8$
$48 \div 4 = 12$	$4 \div 4 = 1$	$28 \div 4 = 7$
$16 \div 4 = 4$	$20 \div 4 = 5$	$36 \div 4 = 9$
$12 \div 4 = 3$	$8 \div 4 = 2$	$44 \div 4 = 11$

$28 \div 4 = 7$	$16 \div 4 = 4$	$4 \div 4 = 1$	$40 \div 4 = 10$	$1 \times 4 = 4$	$32 \div 4 = 8$
$4 \times 4 = 16$	$24 \div 4 = 6$	Double 4 = 8	$48 \div 4 = 12$	$4 \times 8 = 32$	$3 \times 4 = 12$
$44 \div 4 = 11$	$5 \times 4 = 20$	$11 \times 4 = 44$	$10 \times 4 = 40$	$20 \div 4 = 5$	$36 \div 4 = 9$
$7 \times 4 = 28$	$4 \times 9 = 36$	$12 \div 4 = 3$	$\frac{1}{2}$ of 8 = 4	$4 \times 6 = 24$	$12 \times 4 = 48$

Five times table sheet

$5 \times 4 = 20$	$10 \times 5 = 50$	$5 \times 8 = 40$
$3 \times 5 = 15$	$5 \times 1 = 5$	$5 \times 5 = 25$
$12 \times 5 = 60$	$5 \times 2 = 10$	$11 \times 5 = 55$
$7 \times 5 = 35$	$5 \times 9 = 45$	$5 \times 6 = 30$

$50 \div 5 = 10$	$10 \div 5 = 2$	$40 \div 5 = 8$
$5 \div 5 = 1$	$30 \div 5 = 6$	$20 \div 5 = 4$
$55 \div 5 = 11$	$25 \div 5 = 5$	$45 \div 5 = 9$
$15 \div 5 = 3$	$35 \div 5 = 7$	$60 \div 5 = 12$

$5 \times 4 = 20$	$25 \div 5 = 5$	$5 \times 10 = 50$	$15 \div 5 = 3$	$5 \times 9 = 45$	$5 \times 3 = 15$
$10 \div 5 = 2$	$7 \times 5 = 35$	$5 \times 5 = 25$	Double 5 = 10	$60 \div 5 = 12$	$30 \div 5 = 6$
$8 \times 5 = 40$	$5 \div 5 = 1$	$\frac{1}{2}$ of 10 = 5	$50 \div 5 = 10$	$6 \times 5 = 30$	$35 \div 5 = 7$
$20 \div 5 = 4$	$5 \times 8 = 40$	$5 \times 9 = 45$	$55 \div 5 = 11$	$11 \times 5 = 55$	$12 \times 5 = 60$

Six times table sheet

$6 \times 4 = 24$	$10 \times 6 = 60$	$6 \times 8 = 48$
$6 \times 2 = 12$	$6 \times 1 = 6$	$6 \times 6 = 36$
$12 \times 6 = 72$	$5 \times 6 = 30$	$11 \times 6 = 66$
$7 \times 6 = 42$	$6 \times 9 = 54$	$3 \times 6 = 18$

$60 \div 6 = 10$	$48 \div 6 = 8$	$12 \div 6 = 2$
$72 \div 6 = 12$	$30 \div 6 = 5$	$42 \div 6 = 7$
$18 \div 6 = 3$	$66 \div 6 = 11$	$6 \div 6 = 1$
$24 \div 6 = 4$	$36 \div 6 = 6$	$54 \div 6 = 9$

$6 \times 4 = 24$	$18 \div 6 = 3$	$7 \times 6 = 42$	$6 \times 1 = 6$	$48 \div 6 = 8$	$\frac{1}{2}$ of 12 = 6
$60 \div 6 = 10$	$36 \div 6 = 6$	$66 \div 6 = 11$	$72 \div 6 = 12$	$30 \div 6 = 5$	$42 \div 6 = 7$
$12 \times 6 = 72$	$54 \div 6 = 9$	$11 \times 6 = 66$	$10 \times 6 = 60$	$6 \times 6 = 36$	$6 \div 6 = 1$
$6 \times 8 = 48$	$6 \times 9 = 54$	$3 \times 6 = 18$	$24 \div 6 = 4$	Double 6 = 12	$5 \times 6 = 30$

Seven times table sheet

$7 \times 4 = 28$	$10 \times 7 = 70$	$7 \times 8 = 56$
$7 \times 2 = 14$	$7 \times 1 = 7$	$3 \times 7 = 21$
$12 \times 7 = 84$	$5 \times 7 = 35$	$11 \times 7 = 77$
$7 \times 7 = 49$	$7 \times 9 = 63$	$7 \times 6 = 42$

$70 \div 7 = 10$	$42 \div 7 = 6$	$56 \div 7 = 8$
$28 \div 7 = 4$	$84 \div 7 = 12$	$14 \div 7 = 2$
$21 \div 7 = 3$	$7 \div 7 = 1$	$63 \div 7 = 9$
$35 \div 7 = 5$	$49 \div 7 = 7$	$77 \div 7 = 11$

$7 \times 4 = 28$	$7 \times 1 = 7$	$35 \div 7 = 5$	$\frac{1}{2}$ of 14 = 7	$42 \div 7 = 6$	$56 \div 7 = 8$
$77 \div 7 = 11$	$49 \div 7 = 7$	$3 \times 7 = 21$	$28 \div 7 = 4$	$5 \times 7 = 35$	$70 \div 7 = 10$
$12 \times 7 = 84$	$84 \div 7 = 12$	$11 \times 7 = 77$	$21 \div 7 = 3$	$7 \div 7 = 1$	$63 \div 7 = 9$
$7 \times 7 = 49$	$7 \times 9 = 63$	$6 \times 7 = 42$	$7 \times 8 = 56$	$10 \times 7 = 70$	Double 7 = 14

Eight times table sheet

$8 \times 4 = 32$	$10 \times 8 = 80$	$3 \times 8 = 24$
$8 \times 2 = 16$	$8 \times 1 = 8$	$8 \times 8 = 64$
$12 \times 8 = 96$	$5 \times 8 = 40$	$11 \times 8 = 88$
$7 \times 8 = 56$	$8 \times 9 = 72$	$8 \times 6 = 48$

$80 \div 8 = 10$	$48 \div 8 = 6$	$56 \div 8 = 7$
$72 \div 8 = 9$	$8 \div 8 = 1$	$64 \div 8 = 8$
$16 \div 8 = 2$	$88 \div 8 = 11$	$96 \div 8 = 12$
$24 \div 8 = 3$	$40 \div 8 = 5$	$32 \div 8 = 4$

$8 \times 4 = 32$	$10 \times 8 = 80$	$3 \times 8 = 24$	$80 \div 8 = 10$	$48 \div 8 = 6$	$56 \div 8 = 7$
Double 8 = 16	$8 \times 1 = 8$	$8 \times 8 = 64$	$72 \div 8 = 9$	$8 \div 8 = 1$	$64 \div 8 = 8$
$12 \times 8 = 96$	$5 \times 8 = 40$	$\frac{1}{2}$ of 8 = 4	$11 \times 8 = 88$	$88 \div 8 = 11$	$96 \div 8 = 12$
$7 \times 8 = 56$	$8 \times 9 = 72$	$8 \times 6 = 48$	$24 \div 8 = 3$	$40 \div 8 = 5$	$32 \div 8 = 4$

Nine times table sheet

$9 \times 4 = 36$	$10 \times 9 = 90$	$9 \times 8 = 72$
$9 \times 2 = 18$	$9 \times 1 = 9$	$3 \times 9 = 27$
$12 \times 9 = 108$	$5 \times 9 = 45$	$11 \times 9 = 99$
$7 \times 9 = 63$	$9 \times 9 = 81$	$9 \times 6 = 54$

$90 \div 9 = 10$	$72 \div 9 = 8$	$63 \div 9 = 7$
$108 \div 9 = 12$	$18 \div 9 = 2$	$54 \div 9 = 6$
$27 \div 9 = 3$	$99 \div 9 = 11$	$9 \div 9 = 1$
$36 \div 9 = 4$	$45 \div 9 = 5$	$81 \div 9 = 9$

$9 \times 4 = 36$	$10 \times 9 = 90$	$9 \times 9 = 81$	Double 9 = 18	$9 \times 8 = 72$	$45 \div 9 = 5$
$90 \div 9 = 10$	$36 \div 9 = 4$	$81 \div 9 = 9$	$108 \div 9 = 12$	$\frac{1}{2}$ of 18 = 9	$7 \times 9 = 63$
$12 \times 9 = 108$	$5 \times 9 = 45$	$11 \times 9 = 99$	$27 \div 9 = 3$	$99 \div 9 = 11$	$9 \div 9 = 1$
$54 \div 9 = 6$	$63 \div 9 = 7$	$9 \times 6 = 54$	$9 \times 1 = 9$	$72 \div 9 = 8$	$3 \times 9 = 27$

Ten times table sheet

$10 \times 4 = 40$	$5 \times 10 = 50$	$10 \times 8 = 80$
$3 \times 10 = 30$	$10 \times 1 = 10$	$10 \times 10 = 100$
$12 \times 10 = 120$	$10 \times 2 = 20$	$11 \times 10 = 110$
$7 \times 10 = 70$	$10 \times 9 = 90$	$10 \times 6 = 60$

$100 \div 10 = 10$	$120 \div 10 = 12$	$80 \div 10 = 8$
$30 \div 10 = 3$	$70 \div 10 = 7$	$20 \div 10 = 2$
$10 \div 10 = 1$	$50 \div 10 = 5$	$90 \div 10 = 9$
$40 \div 10 = 4$	$110 \div 10 = 11$	$60 \div 10 = 6$

$10 \times 4 = 40$	$100 \div 10 = 10$	$6 \times 10 = 60$	$30 \div 3 = 10$	$10 \times 8 = 80$	$10 \times 10 = 100$
$50 \div 10 = 5$	$7 \times 10 = 70$	$10 \times 9 = 90$	Double 10 = 20	$120 \div 10 = 12$	$30 \div 10 = 3$
$20 \div 10 = 2$	$10 \div 10 = 1$	$\frac{1}{2}$ of 20 = 10	$50 \div 10 = 5$	$110 \div 10 = 11$	$60 \div 10 = 6$
$7 \times 10 = 70$	$10 \times 8 = 80$	$10 \times 9 = 90$	$10 \times 4 = 40$	$10 \times 5 = 50$	$10 \times 12 = 120$

Eleven times table sheet

$11 \times 4 = 44$	$10 \times 11 = 110$	$11 \times 8 = 88$
$11 \times 2 = 22$	$11 \times 1 = 11$	$11 \times 11 = 121$
$12 \times 11 = 132$	$5 \times 11 = 55$	$3 \times 11 = 33$
$7 \times 11 = 77$	$11 \times 9 = 99$	$11 \times 6 = 66$

$110 \div 11 = 10$	$33 \div 11 = 3$	$66 \div 11 = 6$
$121 \div 11 = 11$	$44 \div 11 = 4$	$22 \div 11 = 2$
$99 \div 11 = 9$	$55 \div 11 = 5$	$88 \div 11 = 8$
$132 \div 11 = 12$	$11 \div 11 = 1$	$77 \div 11 = 7$

$11 \times 4 = 44$	$44 \div 11 = 4$	$11 \div 1 = 11$	$110 \div 11 = 10$	$33 \div 11 = 3$	$66 \div 11 = 6$
$77 \div 11 = 7$	$11 \times 1 = 11$	$132 \div 11 = 12$	$121 \div 11 = 11$	$10 \times 11 = 110$	$7 \times 11 = 77$
$12 \times 11 = 132$	$11 \times 5 = 55$	$3 \times 11 = 33$	$99 \div 11 = 9$	$55 \div 11 = 5$	$88 \div 11 = 8$
$\frac{1}{2}$ of 22 = 11	$11 \times 9 = 99$	$11 \times 6 = 66$	$11 \times 11 = 121$	$11 \times 8 = 88$	Double 11 = 22

Twelve times table sheet

$12 \times 4 = 48$	$10 \times 12 = 120$	$12 \times 8 = 96$
$12 \times 2 = 24$	$12 \times 1 = 12$	$6 \times 12 = 72$
$12 \times 12 = 144$	$5 \times 12 = 60$	$11 \times 12 = 132$
$7 \times 12 = 84$	$12 \times 9 = 108$	$3 \times 12 = 36$

$120 \div 12 = 10$	$96 \div 12 = 8$	$24 \div 12 = 2$
$144 \div 12 = 12$	$60 \div 12 = 5$	$48 \div 12 = 4$
$36 \div 12 = 3$	$132 \div 12 = 11$	$12 \div 12 = 1$
$48 \div 12 = 4$	$72 \div 12 = 6$	$108 \div 12 = 9$

$12 \times 4 = 48$	$72 \div 12 = 6$	$12 \times 8 = 96$	$120 \div 12 = 10$	$96 \div 12 = 8$	$\frac{1}{2}$ of 24 = 12
Double 12 = 24	$12 \times 1 = 12$	$48 \div 12 = 4$	$144 \div 12 = 12$	$11 \times 12 = 132$	$5 \times 12 = 60$
$108 \div 12 = 9$	$48 \div 12 = 4$	$60 \div 12 = 5$	$36 \div 12 = 3$	$132 \div 12 = 11$	$12 \div 12 = 1$
$12 \times 7 = 84$	$12 \times 9 = 108$	$3 \times 12 = 36$	$6 \times 12 = 72$	$10 \times 12 = 120$	$12 \times 12 = 144$

Challenge multiplication sheets



Challenge sheets - contents page



The Challenge sheets are a fun and a focussed way to cover all of the times tables. They increase in difficulty both through coverage and the number of sums to be answered within a suggested time limit of five minutes.

Title	Objectives covered
Challenge sheet 1	2, 5, 10 multiplication facts
Challenge sheet 2	2, 5, 10 division facts
Challenge sheet 3	2, 5, 10 multiplication and division facts
Challenge sheet 4	3, 4, 8 multiplication facts
Challenge sheet 5	3, 4, 8 division facts
Challenge sheet 6	3, 4, 8 multiplication and division facts
Challenge sheet 7	2, 3, 4, 5, 6, 7, 8, 9, 10 multiplication facts
Challenge sheet 8	2, 3, 4, 5, 6, 7, 8, 9, 10 division facts
Challenge sheet 9	2, 3, 4, 5, 6, 7, 8, 9, 10 multiplication and division facts
Challenge sheet 10	Multiplication facts up to 12 x 12
Challenge sheet 11	Division facts up to 12 x 12
Challenge sheet 12	Multiplication and division facts up to 12 x 12
Challenge sheet 13	Multiplication and division facts up to 12 x 12 extra
Class assessment sheet	Record the progress of your class/es
Answer sheet 1	Answers to Challenge sheets 1, 2 and 3
Answer sheet 2	Answers to Challenge sheets 4, 5 and 6
Answer sheet 3	Answers to Challenge sheets 7 and 8
Answer sheet 4	Answers to Challenge sheets 9 and 10
Answer sheet 5	Answers to Challenge sheets 11 and 12
Answer sheet 6	Answers to Challenge sheet 13

Name:

Date:.....

Challenge sheet 1

Find the answers to the following questions.

1. $2 \times 9 = \dots\dots\dots$

16. $5 \times 5 = \dots\dots\dots$

2. $3 \times 5 = \dots\dots\dots$

17. $7 \times 10 = \dots\dots\dots$

3. $2 \times 8 = \dots\dots\dots$

18. $11 \times 2 = \dots\dots\dots$

4. $7 \times 5 = \dots\dots\dots$

19. $10 \times 2 = \dots\dots\dots$

5. $10 \times 4 = \dots\dots\dots$

20. $5 \times 6 = \dots\dots\dots$

6. $12 \times 2 = \dots\dots\dots$

21. $5 \times 8 = \dots\dots\dots$

7. $12 \times 10 = \dots\dots\dots$

22. $2 \times 2 = \dots\dots\dots$

8. $6 \times 2 = \dots\dots\dots$

23. $11 \times 5 = \dots\dots\dots$

9. $3 \times 10 = \dots\dots\dots$

24. $5 \times 1 = \dots\dots\dots$

10. $3 \times 2 = \dots\dots\dots$

25. $6 \times 10 = \dots\dots\dots$

11. $10 \times 5 = \dots\dots\dots$

26. $10 \times 10 = \dots\dots\dots$

12. $5 \times 4 = \dots\dots\dots$

27. $5 \times 5 = \dots\dots\dots$

13. $12 \times 5 = \dots\dots\dots$

28. $11 \times 10 = \dots\dots\dots$

14. $7 \times 2 = \dots\dots\dots$

29. $5 \times 9 = \dots\dots\dots$

15. $5 \times 10 = \dots\dots\dots$

30. $10 \times 8 = \dots\dots\dots$

Time taken:

Name:

Date:.....

Challenge sheet 2

Find the answers to the following questions.

1. $22 \div 2 = \dots\dots\dots$

16. $10 \div 5 = \dots\dots\dots$

2. $70 \div 10 = \dots\dots\dots$

17. $16 \div 2 = \dots\dots\dots$

3. $55 \div 5 = \dots\dots\dots$

18. $110 \div 10 = \dots\dots\dots$

4. $4 \div 2 = \dots\dots\dots$

19. $35 \div 5 = \dots\dots\dots$

5. $30 \div 5 = \dots\dots\dots$

20. $120 \div 10 = \dots\dots\dots$

6. $30 \div 10 = \dots\dots\dots$

21. $5 \div 5 = \dots\dots\dots$

7. $18 \div 2 = \dots\dots\dots$

22. $40 \div 10 = \dots\dots\dots$

8. $60 \div 5 = \dots\dots\dots$

23. $24 \div 2 = \dots\dots\dots$

9. $20 \div 2 = \dots\dots\dots$

24. $20 \div 10 = \dots\dots\dots$

10. $40 \div 5 = \dots\dots\dots$

25. $8 \div 2 = \dots\dots\dots$

11. $45 \div 5 = \dots\dots\dots$

26. $20 \div 5 = \dots\dots\dots$

12. $14 \div 2 = \dots\dots\dots$

27. $6 \div 2 = \dots\dots\dots$

13. $25 \div 5 = \dots\dots\dots$

28. $15 \div 5 = \dots\dots\dots$

14. $12 \div 2 = \dots\dots\dots$

29. $2 \div 2 = \dots\dots\dots$

15. $50 \div 10 = \dots\dots\dots$

30. $90 \div 10 = \dots\dots\dots$

Time taken:

Name:

Date:.....

Challenge sheet 3

Find the answers to the following questions.

1. $10 \times 4 = \dots\dots\dots$ 16. $25 \div 5 = \dots\dots\dots$ 31. $6 \times 10 = \dots\dots\dots$

2. $35 \div 5 = \dots\dots\dots$ 17. $2 \times 8 = \dots\dots\dots$ 32. $10 \times \dots\dots = 90$

3. $20 \div 10 = \dots\dots\dots$ 18. $2 \times \dots\dots = 18$ 33. $5 \times \dots\dots = 15$

4. $\dots\dots \times 10 = 70$ 19. $20 \div 2 = \dots\dots\dots$ 34. $10 \times 9 = \dots\dots\dots$

5. $30 \div 3 = \dots\dots\dots$ 20. $10 \times \dots\dots = 80$ 35. $7 \times 2 = \dots\dots\dots$

6. $5 \times \dots\dots\dots = 45$ 21. $\dots\dots \div 10 = 12$ 36. $12 \times 2 = \dots\dots\dots$

7. $11 \times 5 = \dots\dots\dots$ 22. $11 \times 2 = \dots\dots\dots$ 37. $100 \div 10 = \dots\dots\dots$

8. $10 \times \dots\dots = 40$ 23. $12 \times 5 = \dots\dots\dots$ 38. $10 \times 12 = \dots\dots\dots$

9. $2 \times 4 = \dots\dots\dots$ 24. $14 \div 2 = \dots\dots\dots$ 39. $15 \div 5 = \dots\dots\dots$

10. $10 \div 2 = \dots\dots\dots$ 25. $5 \times 8 = \dots\dots\dots$ 40. $2 \times \dots\dots\dots = 4$

11. $\dots\dots \times 2 = 20$ 26. $2 \div 2 = \dots\dots\dots$ 41. $50 \div 10 = \dots\dots\dots$

12. $8 \div 2 = \dots\dots\dots$ 27. $7 \times 10 = \dots\dots\dots$ 42. $2 \times 9 = \dots\dots\dots$

13. $10 \times 8 = \dots\dots\dots$ 28. $\dots\dots \div 5 = 10$ 43. $30 \div 5 = \dots\dots\dots$

14. $\dots\dots \div 5 = 12$ 29. $2 \times 10 = \dots\dots\dots$ 44. $5 \times 9 = \dots\dots\dots$

15. $4 \times 2 = \dots\dots\dots$ 30. $22 \div 2 = \dots\dots\dots$ 45. $6 \div 2 = \dots\dots\dots$

Time taken:

Name:

Date:.....

Challenge sheet 4

Find the answers to the following questions.

1. $3 \times 4 = \dots\dots\dots$ 13. $11 \times 4 = \dots\dots\dots$ 25. $3 \times 8 = \dots\dots\dots$

2. $4 \times 6 = \dots\dots\dots$ 14. $11 \times 8 = \dots\dots\dots$ 26. $4 \times 1 = \dots\dots\dots$

3. $12 \times 3 = \dots\dots\dots$ 15. $7 \times 8 = \dots\dots\dots$ 27. $11 \times 3 = \dots\dots\dots$

4. $5 \times 8 = \dots\dots\dots$ 16. $3 \times 9 = \dots\dots\dots$ 28. $3 \times 6 = \dots\dots\dots$

5. $7 \times 4 = \dots\dots\dots$ 17. $10 \times 8 = \dots\dots\dots$ 29. $4 \times 4 = \dots\dots\dots$

6. $8 \times 2 = \dots\dots\dots$ 18. $8 \times 1 = \dots\dots\dots$ 30. $10 \times 3 = \dots\dots\dots$

7. $12 \times 8 = \dots\dots\dots$ 19. $7 \times 3 = \dots\dots\dots$ 31. $3 \times 2 = \dots\dots\dots$

8. $4 \times 9 = \dots\dots\dots$ 20. $8 \times 9 = \dots\dots\dots$ 32. $8 \times 6 = \dots\dots\dots$

9. $3 \times 4 = \dots\dots\dots$ 21. $10 \times 4 = \dots\dots\dots$ 33. $4 \times 8 = \dots\dots\dots$

10. $3 \times 8 = \dots\dots\dots$ 22. $3 \times 1 = \dots\dots\dots$ 34. $4 \times 2 = \dots\dots\dots$

11. $12 \times 4 = \dots\dots\dots$ 23. $5 \times 4 = \dots\dots\dots$ 35. $3 \times 3 = \dots\dots\dots$

12. $8 \times 8 = \dots\dots\dots$ 24. $5 \times 3 = \dots\dots\dots$ 36. $8 \times 4 = \dots\dots\dots$

Time taken:

Name:

Date:.....

Challenge sheet 5

Find the answers to the following questions.

1. $20 \div 4 = \dots\dots\dots$ 13. $48 \div 8 = \dots\dots\dots$ 25. $28 \div 4 = \dots\dots\dots$

2. $16 \div 8 = \dots\dots\dots$ 14. $15 \div 3 = \dots\dots\dots$ 26. $8 \div 8 = \dots\dots\dots$

3. $9 \div 3 = \dots\dots\dots$ 15. $12 \div 4 = \dots\dots\dots$ 27. $3 \div 3 = \dots\dots\dots$

4. $48 \div 4 = \dots\dots\dots$ 16. $24 \div 8 = \dots\dots\dots$ 28. $16 \div 4 = \dots\dots\dots$

5. $40 \div 4 = \dots\dots\dots$ 17. $24 \div 3 = \dots\dots\dots$ 29. $88 \div 8 = \dots\dots\dots$

6. $12 \div 3 = \dots\dots\dots$ 18. $4 \div 4 = \dots\dots\dots$ 30. $27 \div 3 = \dots\dots\dots$

7. $6 \div 3 = \dots\dots\dots$ 19. $32 \div 8 = \dots\dots\dots$ 31. $64 \div 8 = \dots\dots\dots$

8. $80 \div 8 = \dots\dots\dots$ 20. $8 \div 4 = \dots\dots\dots$ 32. $30 \div 3 = \dots\dots\dots$

9. $33 \div 3 = \dots\dots\dots$ 21. $18 \div 3 = \dots\dots\dots$ 33. $56 \div 8 = \dots\dots\dots$

10. $72 \div 8 = \dots\dots\dots$ 22. $40 \div 8 = \dots\dots\dots$ 34. $36 \div 4 = \dots\dots\dots$

11. $36 \div 3 = \dots\dots\dots$ 23. $24 \div 4 = \dots\dots\dots$ 35. $21 \div 3 = \dots\dots\dots$

12. $32 \div 4 = \dots\dots\dots$ 24. $96 \div 8 = \dots\dots\dots$ 36. $44 \div 4 = \dots\dots\dots$

Time taken:

Name:

Date:.....

Challenge sheet 6

Find the answers to the following questions.

- | | | |
|-----------------------------|-----------------------------|---------------------------|
| 1. $8 \times 4 =$ | 21. $10 \times 8 =$ | 41. $6 \times 10 =$ |
| 2. $3 \times 3 =$ | 22. $7 \times 3 =$ | 42. $\times 8 = 64$ |
| 3. $\times 8 = 96$ | 23. $3 \times 4 =$ | 43. $3 \times 9 =$ |
| 4. $16 \div 4 =$ | 24. $8 \times$ $= 72$ | 44. $8 \times 6 =$ |
| 5. $\div 8 = 10$ | 25. $48 \div 8 =$ | 45. $11 \times 4 =$ |
| 6. $72 \div 8 =$ | 26. $3 \div$ $= 1$ | 46. $64 \div 8 =$ |
| 7. $11 \times 8 =$ | 27. $88 \div 8 =$ | 47. $\div 8 = 12$ |
| 8. $24 \div 8 =$ | 28. $\div 3 = 9$ | 48. $32 \div 8 =$ |
| 9. $\times 8 = 16$ | 29. $12 \div 3 =$ | 49. $\times 3 = 15$ |
| 10. $12 \times 4 =$ | 30. $4 \times 9 =$ | 50. $7 \times 8 =$ |
| 11. $24 \div 8 =$ | 31. $56 \div 8 =$ | 51. $33 \div 3 =$ |
| 12. $9 \div 3 =$ | 32. $3 \times 8 =$ | 52. $5 \times 4 =$ |
| 13. $6 \times$ $= 18$ | 33. $20 \div 4 =$ | 53. $18 \div 3 =$ |
| 14. $\times 4 = 4$ | 34. $21 \div 3 =$ | 54. $15 \div 3 =$ |
| 15. $\div 3 = 12$ | 35. $40 \div 4 =$ | 55. $40 \div 8 =$ |
| 16. $44 \div 4 =$ | 36. $\times 3 = 33$ | 56. $12 \times 3 =$ |
| 17. $7 \times 4 =$ | 37. $30 \div 3 =$ | 57. $12 \div 4 =$ |
| 18. $4 \times$ $= 16$ | 38. $\div 4 = 6$ | 58. $36 \div 4 =$ |
| 19. $48 \div$ $= 12$ | 39. $\div 4 = 8$ | 59. $3 \times 4 =$ |
| 20. $4 \times 8 =$ | 40. $4 \times 6 =$ | 60. $24 \div 3 =$ |

Time taken:	
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Name: Date:.....

Challenge sheet 7

Find the answers to the following questions.

- | | | |
|---------------------------|---------------------------|---------------------------|
| 1. $6 \times 4 =$ | 21. $9 \times 9 =$ | 41. $6 \times 8 =$ |
| 2. $12 \times 6 =$ | 22. $5 \times 6 =$ | 42. $7 \times 7 =$ |
| 3. $7 \times 6 =$ | 23. $6 \times 9 =$ | 43. $12 \times 8 =$ |
| 4. $7 \times 4 =$ | 24. $5 \times 8 =$ | 44. $7 \times 8 =$ |
| 5. $7 \times 2 =$ | 25. $2 \times 6 =$ | 45. $3 \times 7 =$ |
| 6. $12 \times 7 =$ | 26. $11 \times 8 =$ | 46. $12 \times 4 =$ |
| 7. $4 \times 9 =$ | 27. $7 \times 9 =$ | 47. $7 \times 6 =$ |
| 8. $9 \times 4 =$ | 28. $10 \times 9 =$ | 48. $9 \times 8 =$ |
| 9. $9 \times 2 =$ | 29. $8 \times 4 =$ | 49. $8 \times 9 =$ |
| 10. $12 \times 9 =$ | 30. $5 \times 9 =$ | 50. $1 \times 9 =$ |
| 11. $7 \times 9 =$ | 31. $8 \times 8 =$ | 51. $9 \times 6 =$ |
| 12. $3 \times 6 =$ | 32. $5 \times 7 =$ | 52. $7 \times 8 =$ |
| 13. $4 \times 4 =$ | 33. $10 \times 7 =$ | 53. $3 \times 8 =$ |
| 14. $1 \times 7 =$ | 34. $8 \times 9 =$ | 54. $8 \times 6 =$ |
| 15. $3 \times 4 =$ | 35. $10 \times 4 =$ | 55. $4 \times 8 =$ |
| 16. $6 \times 10 =$ | 36. $5 \times 4 =$ | 56. $3 \times 8 =$ |
| 17. $7 \times 4 =$ | 37. $4 \times 9 =$ | 57. $4 \times 6 =$ |
| 18. $4 \times 1 =$ | 38. $3 \times 1 =$ | 58. $3 \times 3 =$ |
| 19. $12 \times 3 =$ | 39. $5 \times 3 =$ | 59. $11 \times 3 =$ |
| 20. $7 \times 3 =$ | 40. $3 \times 9 =$ | 60. $3 \times 6 =$ |

Time taken:

Name:

Date:.....

Challenge sheet 8

Find the answers to the following questions.

- | | | |
|--------------------------|---------------------------|--------------------------|
| 1. $5 \div 5 =$ | 21. $14 \div 7 =$ | 41. $32 \div 8 =$ |
| 2. $55 \div 5 =$ | 22. $32 \div 4 =$ | 42. $45 \div 5 =$ |
| 3. $48 \div 8 =$ | 23. $50 \div 10 =$ | 43. $22 \div 2 =$ |
| 4. $21 \div 3 =$ | 24. $15 \div 3 =$ | 44. $60 \div 10 =$ |
| 5. $24 \div 2 =$ | 25. $64 \div 8 =$ | 45. $30 \div 5 =$ |
| 6. $24 \div 3 =$ | 26. $18 \div 2 =$ | 46. $8 \div 2 =$ |
| 7. $80 \div 8 =$ | 27. $16 \div 4 =$ | 47. $56 \div 8 =$ |
| 8. $4 \div 4 =$ | 28. $12 \div 3 =$ | 48. $90 \div 10 =$ |
| 9. $24 \div 8 =$ | 29. $63 \div 7 =$ | 49. $30 \div 3 =$ |
| 10. $6 \div 3 =$ | 30. $24 \div 4 =$ | 50. $28 \div 4 =$ |
| 11. $48 \div 4 =$ | 31. $72 \div 8 =$ | 51. $25 \div 5 =$ |
| 12. $10 \div 10 =$ | 32. $20 \div 4 =$ | 52. $36 \div 4 =$ |
| 13. $40 \div 4 =$ | 33. $12 \div 2 =$ | 53. $21 \div 7 =$ |
| 14. $36 \div 3 =$ | 34. $110 \div 10 =$ | 54. $40 \div 10 =$ |
| 15. $8 \div 8 =$ | 35. $18 \div 3 =$ | 55. $27 \div 3 =$ |
| 16. $12 \div 3 =$ | 36. $54 \div 9 =$ | 56. $10 \div 5 =$ |
| 17. $81 \div 9 =$ | 37. $20 \div 2 =$ | 57. $36 \div 9 =$ |
| 18. $16 \div 2 =$ | 38. $6 \div 2 =$ | 58. $30 \div 10 =$ |
| 19. $18 \div 9 =$ | 39. $100 \div 10 =$ | 59. $44 \div 4 =$ |
| 20. $84 \div 7 =$ | 40. $20 \div 5 =$ | 60. $40 \div 8 =$ |

Time taken:

Name: Date:.....

Challenge sheet 9

Find the answers to the following questions.

- | | | |
|-------------------------------|------------------------------|-----------------------------|
| 1. $30 \div 3 =$ | 26. $7 \times 5 =$ | 51. $2 \times 9 =$ |
| 2. $88 \div 8 =$ | 27. $10 \times$ $= 80$ | 52. $12 \times 5 =$ |
| 3. $\times 10 = 70$ | 28. $6 \times$ $= 18$ | 53. $18 \div 3 =$ |
| 4. $30 \div 3 =$ | 29. $28 \div 7 =$ | 54. $5 \times 9 =$ |
| 5. $\times 4 = 4$ | 30. $\times 5 = 40$ | 55. $21 \div 3 =$ |
| 6. $20 \div 2 =$ | 31. $2 \times$ $= 18$ | 56. $5 \times$ $= 25$ |
| 7. $10 \times 10 =$ | 32. $9 \times 4 =$ | 57. $30 \div 6 =$ |
| 8. $11 \times 8 =$ | 33. $4 \times 8 =$ | 58. $40 \div 4 =$ |
| 9. $\div 6 = 12$ | 34. $42 \div 6 =$ | 59. $\div 4 = 8$ |
| 10. $48 \div$ $= 12$ | 35. $10 \div 5 =$ | 60. $9 \times 9 =$ |
| 11. $10 \times 6 =$ | 36. $6 \times$ $= 36$ | 61. $6 \times 6 =$ |
| 12. $8 \div 2 =$ | 37. $5 \times 7 =$ | 62. $70 \div 7 =$ |
| 13. $21 \div 7 =$ | 38. $\div 7 = 1$ | 63. $\div 7 = 5$ |
| 14. $\div 8 = 12$ | 39. $\times 9 = 90$ | 64. $3 \times 4 =$ |
| 15. $12 \times$ $= 108$ | 40. $15 \div 3 =$ | 65. $11 \times 9 =$ |
| 16. $7 \times 4 =$ | 41. $7 \times 1 =$ | 66. $\div 7 = 5$ |
| 17. $77 \div 7 =$ | 42. $49 \div$ $= 7$ | 67. $3 \times 7 =$ |
| 18. $\times 7 = 84$ | 43. $84 \div 7 =$ | 68. $11 \times 7 =$ |
| 19. $54 \div 9 =$ | 44. $45 \div 9 =$ | 69. $9 \times 6 =$ |
| 20. $9 \times 4 =$ | 45. $\times 9 = 90$ | 70. $9 \div 9 =$ |
| 21. $90 \div 9 =$ | 46. $36 \div 9 =$ | 71. $81 \div$ $= 9$ |
| 22. $6 \times 4 =$ | 47. $18 \div 6 =$ | 72. $7 \times 6 =$ |
| 23. $60 \div 6 =$ | 48. $36 \div$ $= 6$ | 73. $66 \div 6 =$ |
| 24. $12 \times 6 =$ | 49. $54 \div 6 =$ | 74. $\times 6 = 66$ |
| 25. $6 \times 8 =$ | 50. $60 \times 9 =$ | 75. $3 \times 6 =$ |

Time taken:

Name:

Date:.....

Challenge sheet 10

Find the answers to the following questions.

- | | | |
|---------------------------|----------------------------|----------------------------|
| 1. $11 \times 4 =$ | 21. $12 \times 6 =$ | 41. $4 \times 9 =$ |
| 2. $7 \times 6 =$ | 22. $7 \times 6 =$ | 42. $7 \times 3 =$ |
| 3. $12 \times 11 =$ | 23. $4 \times 7 =$ | 43. $8 \times 4 =$ |
| 4. $8 \times 8 =$ | 24. $4 \times 5 =$ | 44. $6 \times 9 =$ |
| 5. $11 \times 9 =$ | 25. $7 \times 9 =$ | 45. $9 \times 9 =$ |
| 6. $12 \times 2 =$ | 26. $4 \times 9 =$ | 46. $5 \times 6 =$ |
| 7. $12 \times 12 =$ | 27. $12 \times 7 =$ | 47. $7 \times 1 =$ |
| 8. $7 \times 12 =$ | 28. $5 \times 11 =$ | 48. $10 \times 11 =$ |
| 9. $7 \times 11 =$ | 29. $12 \times 4 =$ | 49. $3 \times 1 =$ |
| 10. $4 \times 5 =$ | 30. $4 \times 9 =$ | 50. $2 \times 3 =$ |
| 11. $9 \times 4 =$ | 31. $12 \times 1 =$ | 51. $11 \times 8 =$ |
| 12. $9 \times 2 =$ | 32. $5 \times 12 =$ | 52. $5 \times 9 =$ |
| 13. $12 \times 9 =$ | 33. $12 \times 9 =$ | 53. $3 \times 11 =$ |
| 14. $7 \times 9 =$ | 34. $11 \times 8 =$ | 54. $11 \times 6 =$ |
| 15. $6 \times 10 =$ | 35. $12 \times 8 =$ | 55. $12 \times 8 =$ |
| 16. $7 \times 4 =$ | 36. $10 \times 9 =$ | 56. $3 \times 3 =$ |
| 17. $4 \times 1 =$ | 37. $5 \times 3 =$ | 57. $11 \times 12 =$ |
| 18. $12 \times 3 =$ | 38. $11 \times 11 =$ | 58. $3 \times 12 =$ |
| 19. $3 \times 2 =$ | 39. $3 \times 7 =$ | 59. $12 \times 4 =$ |
| 20. $6 \times 4 =$ | 40. $5 \times 4 =$ | 60. $11 \times 2 =$ |

Name:

Date:.....

61. $9 \times 8 =$

81. $10 \times 3 =$

62. $8 \times 7 =$

82. $3 \times 9 =$

63. $11 \times 9 =$

83. $8 \times 6 =$

64. $10 \times 4 =$

84. $7 \times 4 =$

65. $3 \times 8 =$

85. $4 \times 6 =$

66. $2 \times 2 =$

86. $12 \times 8 =$

67. $3 \times 3 =$

87. $7 \times 2 =$

68. $11 \times 3 =$

88. $4 \times 4 =$

69. $3 \times 6 =$

89. $4 \times 6 =$

70. $6 \times 8 =$

90. $10 \times 12 =$

71. $7 \times 7 =$

91. $5 \times 8 =$

72. $7 \times 9 =$

92. $9 \times 6 =$

73. $7 \times 8 =$

93. $3 \times 1 =$

74. $12 \times 12 =$

94. $5 \times 4 =$

75. $8 \times 8 =$

95. $5 \times 3 =$

76. $4 \times 8 =$

96. $7 \times 2 =$

77. $4 \times 2 =$

97. $11 \times 1 =$

78. $6 \times 12 =$

98. $3 \times 9 =$

79. $8 \times 4 =$

99. $5 \times 9 =$

80. $6 \times 3 =$

100. $12 \times 5 =$

Time taken:

Name:

Date:.....

Challenge sheet 11

Find the answers to the following questions.

- | | | |
|--------------------------|---------------------------|--------------------------|
| 1. $50 \div 5 =$ | 21. $12 \div 7 =$ | 41. $27 \div 9 =$ |
| 2. $12 \div 2 =$ | 22. $22 \div 11 =$ | 42. $33 \div 3 =$ |
| 3. $55 \div 5 =$ | 23. $48 \div 12 =$ | 43. $10 \div 10 =$ |
| 4. $30 \div 10 =$ | 24. $24 \div 3 =$ | 44. $99 \div 9 =$ |
| 5. $16 \div 8 =$ | 25. $60 \div 6 =$ | 45. $77 \div 7 =$ |
| 6. $4 \div 2 =$ | 26. $10 \div 5 =$ | 46. $42 \div 7 =$ |
| 7. $24 \div 2 =$ | 27. $30 \div 5 =$ | 47. $84 \div 7 =$ |
| 8. $25 \div 5 =$ | 28. $8 \div 4 =$ | 48. $5 \div 5 =$ |
| 9. $72 \div 8 =$ | 29. $70 \div 10 =$ | 49. $49 \div 7 =$ |
| 10. $40 \div 5 =$ | 30. $6 \div 3 =$ | 50. $30 \div 3 =$ |
| 11. $24 \div 8 =$ | 31. $144 \div 12 =$ | 51. $18 \div 2 =$ |
| 12. $48 \div 4 =$ | 32. $20 \div 5 =$ | 52. $8 \div 8 =$ |
| 13. $72 \div 6 =$ | 33. $18 \div 9 =$ | 53. $45 \div 5 =$ |
| 14. $12 \div 4 =$ | 34. $22 \div 2 =$ | 54. $16 \div 4 =$ |
| 15. $48 \div 6 =$ | 35. $88 \div 8 =$ | 55. $90 \div 10 =$ |
| 16. $36 \div 3 =$ | 36. $24 \div 12 =$ | 56. $10 \div 2 =$ |
| 17. $9 \div 3 =$ | 37. $4 \div 4 =$ | 57. $32 \div 8 =$ |
| 18. $108 \div 9 =$ | 38. $20 \div 4 =$ | 58. $8 \div 2 =$ |
| 19. $36 \div 4 =$ | 39. $7 \div 7 =$ | 59. $64 \div 8 =$ |
| 20. $36 \div 9 =$ | 40. $35 \div 7 =$ | 60. $44 \div 11 =$ |

Name:

Date:.....

61. $22 \div 2 =$ 81. $24 \div 3 =$

62. $45 \div 9 =$ 82. $60 \div 12 =$

63. $15 \div 3 =$ 83. $54 \div 9 =$

64. $44 \div 4 =$ 84. $121 \div 11 =$

65. $50 \div 10 =$ 85. $16 \div 2 =$

66. $54 \div 9 =$ 86. $24 \div 6 =$

67. $9 \div 9 =$ 87. $48 \div 12 =$

68. $21 \div 3 =$ 88. $110 \div 11 =$

69. $3 \div 3 =$ 89. $40 \div 8 =$

70. $81 \div 9 =$ 90. $16 \div 4 =$

71. $56 \div 7 =$ 91. $36 \div 12 =$

72. $12 \div 6 =$ 92. $66 \div 11 =$

73. $132 \div 12 =$ 93. $42 \div 6 =$

74. $28 \div 4 =$ 94. $28 \div 7 =$

75. $14 \div 7 =$ 95. $33 \div 11 =$

76. $96 \div 8 =$ 96. $54 \div 6 =$

77. $12 \div 12 =$ 97. $63 \div 7 =$

78. $120 \div 12 =$ 98. $108 \div 12 =$

79. $132 \div 11 =$ 99. $70 \div 7 =$

80. $20 \div 10 =$ 100. $36 \div 6 =$

Time taken:

Name: Date:.....

Challenge sheet 12

Find the answers to the following questions.

- | | | |
|----------------------------|---------------------------|---------------------------|
| 1. $30 \div 10 =$ | 21. $48 \div 6 =$ | 41. $144 \div 12 =$ |
| 2. $4 \times 5 =$ | 22. $9 \times 4 =$ | 42. $4 \times 9 =$ |
| 3. $4 \div 2 =$ | 23. $16 \div 8 =$ | 43. $12 \times 1 =$ |
| 4. $11 \times 9 =$ | 24. $9 \times 2 =$ | 44. $20 \div 10 =$ |
| 5. $72 \div 6 =$ | 25. $18 \div 3 =$ | 45. $12 \times 9 =$ |
| 6. $12 \div 4 =$ | 26. $9 \times 8 =$ | 46. $33 \div 11 =$ |
| 7. $7 \times 11 =$ | 27. $6 \div 3 =$ | 47. $36 \div 4 =$ |
| 8. $36 \div 3 =$ | 28. $8 \div 4 =$ | 48. $84 \div 7 =$ |
| 9. $12 \div 8 =$ | 29. $12 \times 4 =$ | 49. $5 \times 3 =$ |
| 10. $36 \div 9 =$ | 30. $20 \div 4 =$ | 50. $70 \div 10 =$ |
| 11. $3 \times 3 =$ | 31. $7 \div 7 =$ | 51. $16 \div 4 =$ |
| 12. $22 \div 11 =$ | 32. $3 \times 12 =$ | 52. $4 \times 2 =$ |
| 13. $11 \times 4 =$ | 33. $27 \div 9 =$ | 53. $90 \div 10 =$ |
| 14. $7 \times 6 =$ | 34. $12 \times 7 =$ | 54. $45 \div 9 =$ |
| 15. $12 \times 11 =$ | 35. $77 \div 7 =$ | 55. $7 \times 4 =$ |
| 16. $8 \times 8 =$ | 36. $42 \div 7 =$ | 56. $44 \div 4 =$ |
| 17. $48 \div 4 =$ | 37. $10 \times 9 =$ | 57. $50 \div 10 =$ |
| 18. $12 \times 2 =$ | 38. $4 \times 9 =$ | 58. $12 \times 4 =$ |
| 19. $48 \div 12 =$ | 39. $99 \div 9 =$ | 59. $3 \div 3 =$ |
| 20. $7 \times 12 =$ | 40. $5 \times 11 =$ | 60. $5 \times 9 =$ |

Name:

Date:.....

61. $56 \div 7 =$ 81. $10 \times 3 =$

62. $12 \div 6 =$ 82. $16 \div 4 =$

63. $11 \times 8 =$ 83. $8 \times 6 =$

64. $81 \div 9 =$ 84. $21 \div 7 =$

65. $3 \times 11 =$ 85. $11 \times 8 =$

66. $8 \div 8 =$ 86. $54 \div 6 =$

67. $12 \times 8 =$ 87. $63 \div 7 =$

68. $21 \div 7 =$ 88. $4 \times 8 =$

69. $11 \times 12 =$ 89. $10 \div 2 =$

70. $35 \div 7 =$ 90. $6 \times 12 =$

71. $54 \div 9 =$ 91. $8 \times 4 =$

72. $11 \times 2 =$ 92. $6 \times 3 =$

73. $144 \div 12 =$ 93. $40 \div 8 =$

74. $8 \times 7 =$ 94. $3 \times 9 =$

75. $11 \times 6 =$ 95. $36 \div 12 =$

76. $132 \div 11 =$ 96. $15 \div 3 =$

77. $5 \times 12 =$ 97. $8 \times 2 =$

78. $24 \div 3 =$ 98. $12 \times 8 =$

79. $12 \times 12 =$ 99. $7 \times 2 =$

80. $110 \div 11 =$ 100. $15 \div 5 =$

Time taken:

Class assessment sheet

[illegible]

Answer sheet 1

Challenge sheet 1 answers

1. $2 \times 9 = 18$	16. $5 \times 5 = 25$
2. $3 \times 5 = 15$	17. $7 \times 10 = 70$
3. $2 \times 8 = 16$	18. $11 \times 2 = 22$
4. $7 \times 5 = 35$	19. $10 \times 2 = 20$
5. $10 \times 4 = 40$	20. $5 \times 6 = 30$
6. $12 \times 2 = 24$	21. $5 \times 8 = 40$
7. $12 \times 10 = 120$	22. $2 \times 2 = 4$
8. $6 \times 2 = 12$	23. $11 \times 5 = 55$
9. $3 \times 10 = 30$	24. $5 \times 1 = 5$
10. $3 \times 2 = 6$	25. $6 \times 10 = 60$
11. $10 \times 5 = 50$	26. $10 \times 10 = 100$
12. $5 \times 4 = 20$	27. $5 \times 5 = 25$
13. $12 \times 5 = 60$	28. $11 \times 10 = 110$
14. $7 \times 2 = 14$	29. $5 \times 9 = 45$
15. $5 \times 10 = 50$	30. $10 \times 8 = 80$

Challenge sheet 2 answers

1. $22 \div 2 = 11$	16. $10 \div 5 = 2$
2. $70 \div 10 = 7$	17. $16 \div 2 = 8$
3. $55 \div 5 = 11$	18. $110 \div 10 = 11$
4. $4 \div 2 = 2$	19. $35 \div 5 = 7$
5. $30 \div 5 = 6$	20. $120 \div 10 = 12$
6. $30 \div 10 = 3$	21. $5 \div 5 = 1$
7. $18 \div 2 = 9$	22. $40 \div 10 = 4$
8. $60 \div 5 = 12$	23. $24 \div 2 = 12$
9. $20 \div 2 = 10$	24. $20 \div 10 = 2$
10. $40 \div 5 = 8$	25. $8 \div 2 = 4$
11. $45 \div 5 = 9$	26. $20 \div 5 = 4$
12. $14 \div 2 = 7$	27. $6 \div 2 = 3$
13. $25 \div 5 = 5$	28. $15 \div 5 = 3$
14. $12 \div 2 = 6$	29. $2 \div 2 = 1$
15. $50 \div 10 = 5$	30. $90 \div 10 = 9$

Challenge sheet 3 answers

1. $10 \times 4 = 40$	16. $25 \div 5 = 5$	31. $6 \times 10 = 60$
2. $35 \div 5 = 7$	17. $2 \times 8 = 16$	32. $10 \times 9 = 90$
3. $20 \div 10 = 2$	18. $2 \times 9 = 18$	33. $5 \times 3 = 15$
4. $7 \times 10 = 70$	19. $20 \div 2 = 10$	34. $10 \times 9 = 90$
5. $30 \div 3 = 10$	20. $10 \times 8 = 80$	35. $7 \times 2 = 14$
6. $5 \times 9 = 45$	21. $120 \div 10 = 12$	36. $12 \times 2 = 24$
7. $11 \times 5 = 55$	22. $11 \times 2 = 22$	37. $100 \div 10 = 10$
8. $10 \times 4 = 40$	23. $12 \times 5 = 60$	38. $10 \times 12 = 120$
9. $2 \times 4 = 8$	24. $14 \div 2 = 7$	39. $15 \div 5 = 3$
10. $10 \div 2 = 5$	25. $5 \times 8 = 40$	40. $2 \times 2 = 4$
11. $10 \times 2 = 20$	26. $2 \div 2 = 1$	41. $50 \div 10 = 5$
12. $8 \div 2 = 4$	27. $7 \times 10 = 70$	42. $2 \times 9 = 18$
13. $10 \times 8 = 80$	28. $50 \div 5 = 10$	43. $30 \div 5 = 6$
14. $60 \div 5 = 12$	29. $2 \times 10 = 20$	44. $5 \times 9 = 45$
15. $4 \times 2 = 8$	30. $22 \div 2 = 11$	45. $6 \div 2 = 3$

Answer sheet 2

Challenge sheet 4 answers

- | | | |
|------------------------|------------------------|------------------------|
| 1. $3 \times 4 = 12$ | 13. $11 \times 4 = 44$ | 25. $3 \times 8 = 24$ |
| 2. $4 \times 6 = 24$ | 14. $11 \times 8 = 88$ | 26. $4 \times 1 = 4$ |
| 3. $12 \times 3 = 36$ | 15. $7 \times 8 = 56$ | 27. $11 \times 3 = 33$ |
| 4. $5 \times 8 = 40$ | 16. $3 \times 9 = 27$ | 28. $3 \times 6 = 18$ |
| 5. $7 \times 4 = 28$ | 17. $10 \times 8 = 80$ | 29. $4 \times 4 = 16$ |
| 6. $8 \times 2 = 16$ | 18. $8 \times 1 = 8$ | 30. $10 \times 3 = 30$ |
| 7. $12 \times 8 = 96$ | 19. $7 \times 3 = 21$ | 31. $3 \times 2 = 6$ |
| 8. $4 \times 9 = 36$ | 20. $8 \times 9 = 72$ | 32. $8 \times 6 = 48$ |
| 9. $3 \times 4 = 12$ | 21. $10 \times 4 = 40$ | 33. $4 \times 8 = 32$ |
| 10. $3 \times 8 = 24$ | 22. $3 \times 1 = 3$ | 34. $4 \times 2 = 8$ |
| 11. $12 \times 4 = 48$ | 23. $5 \times 4 = 20$ | 35. $3 \times 3 = 9$ |
| 12. $8 \times 8 = 64$ | 24. $5 \times 3 = 15$ | 36. $8 \times 4 = 32$ |

Challenge sheet 5 answers

- | | | |
|----------------------|----------------------|----------------------|
| 1. $20 \div 4 = 5$ | 13. $48 \div 8 = 12$ | 25. $28 \div 4 = 7$ |
| 2. $16 \div 8 = 2$ | 14. $15 \div 3 = 5$ | 26. $8 \div 8 = 1$ |
| 3. $9 \div 3 = 3$ | 15. $12 \div 4 = 3$ | 27. $3 \div 3 = 1$ |
| 4. $48 \div 4 = 12$ | 16. $24 \div 8 = 3$ | 28. $16 \div 4 = 4$ |
| 5. $40 \div 4 = 10$ | 17. $24 \div 3 = 8$ | 29. $88 \div 8 = 11$ |
| 6. $12 \div 3 = 4$ | 18. $4 \div 4 = 1$ | 30. $27 \div 3 = 9$ |
| 7. $6 \div 3 = 2$ | 19. $32 \div 8 = 4$ | 31. $64 \div 8 = 8$ |
| 8. $80 \div 8 = 10$ | 20. $8 \div 4 = 2$ | 32. $30 \div 3 = 10$ |
| 9. $33 \div 3 = 11$ | 21. $18 \div 3 = 6$ | 33. $56 \div 8 = 7$ |
| 10. $72 \div 8 = 9$ | 22. $40 \div 8 = 5$ | 34. $36 \div 4 = 9$ |
| 11. $36 \div 3 = 12$ | 23. $24 \div 4 = 6$ | 35. $21 \div 3 = 7$ |
| 12. $32 \div 4 = 8$ | 24. $96 \div 8 = 12$ | 36. $44 \div 4 = 11$ |

Challenge sheet 6 answers

- | | | |
|------------------------|------------------------|------------------------|
| 1. $8 \times 4 = 32$ | 21. $10 \times 8 = 80$ | 41. $3 \times 8 = 24$ |
| 2. $3 \times 3 = 9$ | 22. $7 \times 3 = 21$ | 42. $8 \times 8 = 64$ |
| 3. $12 \times 8 = 96$ | 23. $3 \times 4 = 12$ | 43. $3 \times 9 = 27$ |
| 4. $16 \div 4 = 4$ | 24. $8 \times 9 = 72$ | 44. $8 \times 6 = 48$ |
| 5. $80 \div 8 = 10$ | 25. $48 \div 8 = 6$ | 45. $11 \times 4 = 44$ |
| 6. $72 \div 8 = 9$ | 26. $3 \div 3 = 1$ | 46. $64 \div 8 = 8$ |
| 7. $11 \times 8 = 88$ | 27. $88 \div 8 = 11$ | 47. $96 \div 8 = 12$ |
| 8. $24 \div 8 = 3$ | 28. $27 \div 3 = 9$ | 48. $32 \div 8 = 4$ |
| 9. $2 \times 8 = 16$ | 29. $12 \div 3 = 4$ | 49. $5 \times 3 = 15$ |
| 10. $12 \times 4 = 48$ | 30. $4 \times 9 = 36$ | 50. $7 \times 8 = 56$ |
| 11. $28 \div 4 = 7$ | 31. $56 \div 8 = 7$ | 51. $33 \div 3 = 11$ |
| 12. $9 \div 3 = 3$ | 32. $3 \times 8 = 24$ | 52. $5 \times 4 = 20$ |
| 13. $6 \times 3 = 18$ | 33. $20 \div 4 = 5$ | 53. $18 \div 3 = 6$ |
| 14. $1 \times 4 = 4$ | 34. $21 \div 3 = 7$ | 54. $15 \div 3 = 5$ |
| 15. $36 \div 3 = 12$ | 35. $40 \div 4 = 10$ | 55. $40 \div 8 = 5$ |
| 16. $44 \div 4 = 11$ | 36. $11 \times 3 = 33$ | 56. $12 \times 3 = 36$ |
| 17. $7 \times 4 = 28$ | 37. $30 \div 3 = 10$ | 57. $12 \div 4 = 3$ |
| 18. $4 \times 4 = 16$ | 38. $24 \div 4 = 6$ | 58. $36 \div 4 = 9$ |
| 19. $48 \div 4 = 12$ | 39. $32 \div 4 = 8$ | 59. $3 \times 4 = 12$ |
| 20. $4 \times 8 = 32$ | 40. $4 \times 6 = 24$ | 60. $24 \div 3 = 8$ |

Answer sheet 3

Challenge sheet 7 answers

1. $6 \times 4 = 24$	21. $9 \times 9 = 81$	41. $6 \times 8 = 48$
2. $12 \times 6 = 72$	22. $5 \times 6 = 30$	42. $7 \times 7 = 49$
3. $7 \times 6 = 42$	23. $6 \times 9 = 54$	43. $12 \times 8 = 96$
4. $7 \times 4 = 28$	24. $5 \times 8 = 40$	44. $7 \times 8 = 56$
5. $7 \times 2 = 14$	25. $2 \times 6 = 12$	45. $3 \times 7 = 21$
6. $12 \times 7 = 84$	26. $11 \times 8 = 88$	46. $12 \times 4 = 48$
7. $4 \times 9 = 36$	27. $7 \times 9 = 63$	47. $7 \times 6 = 42$
8. $9 \times 4 = 36$	28. $10 \times 9 = 90$	48. $9 \times 8 = 72$
9. $9 \times 2 = 18$	29. $8 \times 4 = 32$	49. $8 \times 9 = 72$
10. $12 \times 9 = 108$	30. $5 \times 9 = 40$	50. $1 \times 9 = 9$
11. $7 \times 9 = 63$	31. $8 \times 8 = 64$	51. $9 \times 6 = 54$
12. $3 \times 6 = 18$	32. $5 \times 7 = 35$	52. $7 \times 8 = 56$
13. $4 \times 4 = 16$	33. $10 \times 7 = 70$	53. $3 \times 8 = 24$
14. $1 \times 7 = 7$	34. $8 \times 9 = 72$	54. $8 \times 6 = 48$
15. $3 \times 4 = 12$	35. $10 \times 4 = 40$	55. $4 \times 8 = 32$
16. $6 \times 10 = 60$	36. $5 \times 4 = 20$	56. $3 \times 8 = 24$
17. $7 \times 4 = 28$	37. $4 \times 9 = 36$	57. $4 \times 6 = 24$
18. $4 \times 1 = 4$	38. $3 \times 1 = 3$	58. $3 \times 3 = 9$
19. $12 \times 3 = 36$	39. $5 \times 3 = 15$	59. $11 \times 3 = 33$
20. $7 \times 3 = 21$	40. $3 \times 9 = 27$	60. $3 \times 6 = 18$

Challenge sheet 8 answers

1. $5 \div 5 = 1$	21. $14 \div 7 = 2$	41. $32 \div 8 = 4$
2. $55 \div 5 = 11$	22. $32 \div 4 = 8$	42. $45 \div 5 = 9$
3. $48 \div 8 = 6$	23. $50 \div 10 = 5$	43. $22 \div 2 = 11$
4. $21 \div 3 = 7$	24. $15 \div 3 = 5$	44. $60 \div 10 = 6$
5. $24 \div 2 = 12$	25. $64 \div 8 = 8$	45. $30 \div 5 = 6$
6. $24 \div 3 = 8$	26. $18 \div 2 = 9$	46. $8 \div 2 = 4$
7. $80 \div 8 = 10$	27. $16 \div 4 = 4$	47. $56 \div 8 = 7$
8. $4 \div 4 = 1$	28. $12 \div 3 = 4$	48. $90 \div 10 = 9$
9. $24 \div 8 = 3$	29. $63 \div 7 = 9$	49. $30 \div 3 = 10$
10. $6 \div 3 = 2$	30. $24 \div 4 = 6$	50. $28 \div 4 = 7$
11. $48 \div 4 = 12$	31. $72 \div 8 = 9$	51. $25 \div 5 = 5$
12. $10 \div 10 = 1$	32. $20 \div 4 = 5$	52. $36 \div 4 = 9$
13. $40 \div 4 = 10$	33. $12 \div 2 = 6$	53. $21 \div 7 = 3$
14. $36 \div 3 = 12$	34. $110 \div 10 = 11$	54. $40 \div 10 = 4$
15. $8 \div 8 = 1$	35. $18 \div 3 = 6$	55. $27 \div 3 = 9$
16. $12 \div 3 = 4$	36. $54 \div 9 = 6$	56. $10 \div 5 = 2$
17. $81 \div 9 = 9$	37. $20 \div 2 = 10$	57. $36 \div 9 = 4$
18. $16 \div 2 = 8$	38. $6 \div 2 = 3$	58. $30 \div 10 = 3$
19. $18 \div 9 = 2$	39. $100 \div 10 = 10$	59. $44 \div 4 = 11$
20. $84 \div 7 = 12$	40. $20 \div 5 = 4$	60. $40 \div 8 = 5$

Answer sheet 4

Challenge sheet 9 answers

1. $30 \div 3 = 10$	20. $9 \times 4 = 36$	39. $10 \times 9 = 90$	58. $40 \div 4 = 10$
2. $88 \div 8 = 11$	21. $90 \div 9 = 10$	40. $15 \div 3 = 5$	59. $32 \div 4 = 8$
3. $7 \times 10 = 70$	22. $6 \times 4 = 24$	41. $7 \times 1 = 7$	60. $9 \times 9 = 81$
4. $30 \div 3 = 10$	23. $60 \div 6 = 10$	42. $49 \div 7 = 7$	61. $6 \div 6 = 1$
5. $1 \times 4 = 4$	24. $12 \times 6 = 72$	43. $84 \div 7 = 12$	62. $70 \div 7 = 10$
6. $20 \div 2 = 10$	25. $6 \times 8 = 48$	44. $45 \div 9 = 5$	63. $63 \div 7 = 9$
7. $10 \times 10 = 100$	26. $7 \times 5 = 35$	45. $10 \times 9 = 90$	64. $3 \times 4 = 12$
8. $11 \times 8 = 88$	27. $10 \times 8 = 80$	46. $36 \div 9 = 4$	65. $11 \times 9 = 99$
9. $72 \div 6 = 12$	28. $6 \times 3 = 18$	47. $18 \div 6 = 3$	66. $35 \div 7 = 5$
10. $48 \div 4 = 12$	29. $28 \div 7 = 4$	48. $36 \div 6 = 6$	67. $3 \times 7 = 21$
11. $10 \times 6 = 60$	30. $8 \times 5 = 40$	49. $54 \div 6 = 9$	68. $11 \times 7 = 77$
12. $8 \div 2 = 4$	31. $2 \times 9 = 18$	50. $6 \times 9 = 54$	69. $9 \times 6 = 54$
13. $21 \div 7 = 3$	32. $9 \times 4 = 36$	51. $2 \times 9 = 18$	70. $9 \times 9 = 81$
14. $96 \div 8 = 12$	33. $4 \times 8 = 32$	52. $12 \times 5 = 60$	71. $81 \div 9 = 9$
15. $12 \times 9 = 108$	34. $42 \div 6 = 7$	53. $18 \div 3 = 6$	72. $7 \times 6 = 42$
16. $7 \times 4 = 28$	35. $10 \div 5 = 2$	54. $5 \times 9 = 45$	73. $66 \div 6 = 11$
17. $77 \div 7 = 11$	36. $6 \times 6 = 36$	55. $21 \div 3 = 7$	74. $11 \times 6 = 66$
18. $12 \times 7 = 84$	37. $5 \times 7 = 35$	56. $5 \times 5 = 25$	75. $3 \times 6 = 18$
19. $54 \div 9 = 6$	38. $7 \div 7 = 1$	57. $30 \div 6 = 5$	

Challenge sheet 10 answers

1. $11 \times 4 = 44$	26. $4 \times 9 = 36$	51. $11 \times 8 = 88$	76. $4 \times 8 = 32$
2. $7 \times 6 = 42$	27. $12 \times 7 = 84$	52. $5 \times 9 = 45$	77. $4 \times 2 = 8$
3. $12 \times 11 = 132$	28. $5 \times 11 = 55$	53. $3 \times 11 = 33$	78. $6 \times 12 = 72$
4. $8 \times 8 = 64$	29. $12 \times 4 = 48$	54. $11 \times 6 = 66$	79. $8 \times 4 = 32$
5. $11 \times 9 = 99$	30. $4 \times 9 = 36$	55. $12 \times 8 = 96$	80. $6 \times 3 = 18$
6. $12 \times 2 = 24$	31. $12 \times 1 = 12$	56. $3 \times 3 = 9$	81. $10 \times 3 = 30$
7. $12 \times 12 = 144$	32. $5 \times 12 = 60$	57. $11 \times 12 = 132$	82. $3 \times 9 = 27$
8. $7 \times 12 = 84$	33. $12 \times 9 = 108$	58. $3 \times 12 = 36$	83. $8 \times 6 = 48$
9. $7 \times 11 = 77$	34. $11 \times 8 = 88$	59. $12 \times 4 = 48$	84. $7 \times 4 = 28$
10. $4 \times 5 = 20$	35. $12 \times 8 = 96$	60. $11 \times 2 = 22$	85. $8 \times 2 = 16$
11. $9 \times 4 = 36$	36. $10 \times 9 = 90$	61. $9 \times 8 = 72$	86. $12 \times 8 = 96$
12. $9 \times 2 = 18$	37. $5 \times 3 = 15$	62. $8 \times 7 = 56$	87. $7 \times 2 = 14$
13. $12 \times 9 = 108$	38. $11 \times 11 = 121$	63. $11 \times 9 = 99$	88. $4 \times 4 = 16$
14. $7 \times 9 = 63$	39. $3 \times 7 = 21$	64. $10 \times 4 = 40$	89. $4 \times 6 = 24$
15. $6 \times 10 = 60$	40. $5 \times 4 = 20$	65. $3 \times 8 = 24$	90. $10 \times 12 = 120$
16. $7 \times 4 = 28$	41. $4 \times 9 = 36$	66. $2 \times 2 = 4$	91. $5 \times 8 = 40$
17. $4 \times 1 = 4$	42. $7 \times 3 = 21$	67. $3 \times 3 = 9$	92. $9 \times 6 = 54$
18. $12 \times 3 = 36$	43. $8 \times 4 = 32$	68. $11 \times 3 = 33$	93. $3 \times 1 = 3$
19. $3 \times 2 = 6$	44. $6 \times 9 = 54$	69. $3 \times 6 = 18$	94. $5 \times 4 = 20$
20. $6 \times 4 = 24$	45. $9 \times 9 = 81$	70. $6 \times 8 = 48$	95. $5 \times 3 = 15$
21. $12 \times 6 = 72$	46. $5 \times 6 = 30$	71. $7 \times 7 = 49$	96. $7 \times 2 = 14$
22. $7 \times 6 = 42$	47. $7 \times 1 = 7$	72. $7 \times 9 = 63$	97. $11 \times 1 = 11$
23. $4 \times 7 = 28$	48. $10 \times 11 = 110$	73. $7 \times 8 = 56$	98. $3 \times 9 = 27$
24. $4 \times 5 = 20$	49. $3 \times 1 = 3$	74. $12 \times 12 = 144$	99. $5 \times 9 = 45$
25. $7 \times 9 = 63$	50. $2 \times 3 = 6$	75. $8 \times 8 = 64$	100. $12 \times 5 = 60$

Answer sheet 5

Challenge sheet 11 answers

1. $50 \div 5 = 10$	26. $10 \div 5 = 2$	51. $18 \div 2 = 9$	76. $96 \div 8 = 12$
2. $12 \div 2 = 6$	27. $30 \div 5 = 6$	52. $8 \div 8 = 1$	77. $12 \div 12 = 1$
3. $55 \div 5 = 11$	28. $8 \div 4 = 2$	53. $45 \div 5 = 9$	78. $120 \div 12 = 10$
4. $30 \div 10 = 3$	29. $70 \div 10 = 7$	54. $16 \div 4 = 4$	79. $132 \div 11 = 12$
5. $16 \div 8 = 2$	30. $6 \div 3 = 2$	55. $90 \div 10 = 9$	80. $20 \div 10 = 2$
6. $4 \div 2 = 2$	31. $144 \div 12 = 12$	56. $10 \div 2 = 5$	81. $24 \div 3 = 8$
7. $24 \div 2 = 12$	32. $20 \div 5 = 4$	57. $32 \div 8 = 4$	82. $60 \div 12 = 5$
8. $25 \div 5 = 5$	33. $18 \div 9 = 2$	58. $8 \div 2 = 4$	83. $54 \div 9 = 6$
9. $72 \div 8 = 9$	34. $22 \div 2 = 11$	59. $64 \div 8 = 8$	84. $121 \div 11 = 11$
10. $40 \div 5 = 8$	35. $88 \div 8 = 11$	60. $44 \div 11 = 4$	85. $16 \div 2 = 8$
11. $24 \div 8 = 3$	36. $24 \div 12 = 2$	61. $2 \div 2 = 1$	86. $24 \div 6 = 4$
12. $48 \div 4 = 12$	37. $4 \div 4 = 1$	62. $45 \div 9 = 5$	87. $48 \div 12 = 4$
13. $72 \div 6 = 12$	38. $20 \div 4 = 5$	63. $15 \div 3 = 5$	88. $110 \div 11 = 10$
14. $12 \div 4 = 3$	39. $7 \div 7 = 1$	64. $44 \div 4 = 11$	89. $40 \div 8 = 5$
15. $48 \div 6 = 8$	40. $35 \div 7 = 5$	65. $50 \div 10 = 5$	90. $16 \div 4 = 4$
16. $36 \div 3 = 12$	41. $27 \div 9 = 3$	66. $54 \div 9 = 6$	91. $36 \div 12 = 3$
17. $9 \div 3 = 3$	42. $33 \div 3 = 11$	67. $9 \div 9 = 1$	92. $66 \div 11 = 6$
18. $108 \div 9 = 12$	43. $10 \div 10 = 1$	68. $21 \div 3 = 7$	93. $42 \div 6 = 7$
19. $36 \div 4 = 9$	44. $99 \div 9 = 11$	69. $3 \div 3 = 1$	94. $28 \div 7 = 4$
20. $36 \div 9 = 4$	45. $77 \div 7 = 11$	70. $81 \div 9 = 9$	95. $33 \div 11 = 3$
21. $21 \div 7 = 3$	46. $42 \div 7 = 6$	71. $56 \div 7 = 8$	96. $54 \div 6 = 9$
22. $22 \div 11 = 2$	47. $84 \div 7 = 12$	72. $12 \div 6 = 2$	97. $63 \div 7 = 9$
23. $48 \div 12 = 4$	48. $5 \div 5 = 1$	73. $132 \div 12 = 11$	98. $108 \div 12 = 9$
24. $24 \div 3 = 8$	49. $49 \div 7 = 7$	74. $28 \div 4 = 7$	99. $70 \div 7 = 10$
25. $60 \div 6 = 10$	50. $30 \div 3 = 10$	75. $14 \div 7 = 2$	100. $36 \div 6 = 6$

Challenge sheet 12 answers

1. $30 \div 10 = 3$	26. $9 \times 8 = 72$	51. $16 \div 4 = 4$	76. $132 \div 11 = 12$
2. $4 \times 5 = 20$	27. $6 \div 3 = 2$	52. $4 \times 2 = 8$	77. $5 \times 12 = 60$
3. $4 \div 2 = 2$	28. $12 \times 4 = 48$	53. $90 \div 10 = 9$	78. $24 \div 3 = 8$
4. $11 \times 9 = 99$	29. $4 \div 4 = 1$	54. $45 \div 9 = 5$	79. $12 \times 12 = 144$
5. $72 \div 6 = 12$	30. $20 \div 4 = 5$	55. $7 \times 4 = 28$	80. $110 \div 11 = 10$
6. $12 \div 4 = 3$	31. $7 \div 7 = 1$	56. $44 \div 4 = 11$	81. $10 \times 3 = 30$
7. $7 \times 11 = 77$	32. $3 \times 12 = 36$	57. $50 \div 10 = 5$	82. $16 \div 4 = 4$
8. $36 \div 3 = 12$	33. $27 \div 9 = 3$	58. $12 \times 4 = 48$	83. $8 \times 6 = 48$
9. $12 \times 8 = 96$	34. $12 \times 7 = 84$	59. $3 \div 3 = 1$	84. $21 \div 7 = 3$
10. $36 \div 9 = 4$	35. $77 \div 7 = 11$	60. $5 \times 9 = 45$	85. $11 \times 8 = 88$
11. $3 \times 3 = 9$	36. $42 \div 7 = 6$	61. $56 \div 7 = 8$	86. $54 \div 6 = 9$
12. $22 \div 11 = 2$	37. $10 \times 9 = 90$	62. $12 \div 6 = 2$	87. $63 \div 7 = 9$
13. $11 \times 4 = 44$	38. $4 \times 9 = 36$	63. $11 \times 8 = 88$	88. $4 \times 8 = 32$
14. $7 \times 6 = 42$	39. $99 \div 9 = 11$	64. $81 \div 9 = 9$	89. $10 \div 2 = 5$
15. $12 \times 11 = 132$	40. $5 \times 11 = 55$	65. $3 \times 11 = 33$	90. $6 \times 12 = 72$
16. $8 \times 8 = 64$	41. $144 \div 12 = 12$	66. $8 \div 8 = 1$	91. $8 \times 4 = 32$
17. $48 \div 4 = 12$	42. $4 \times 9 = 36$	67. $12 \times 8 = 96$	92. $6 \times 3 = 18$
18. $12 \times 2 = 24$	43. $12 \times 1 = 12$	68. $21 \div 7 = 3$	93. $40 \div 8 = 5$
19. $48 \div 12 = 4$	44. $20 \div 10 = 2$	69. $11 \times 12 = 132$	94. $3 \times 9 = 27$
20. $7 \times 12 = 84$	45. $12 \times 9 = 108$	70. $35 \div 7 = 5$	95. $36 \div 12 = 3$
21. $48 \div 6 = 8$	46. $33 \div 11 = 3$	71. $54 \div 9 = 6$	96. $15 \div 3 = 5$
22. $9 \times 4 = 36$	47. $36 \div 4 = 9$	72. $11 \times 2 = 22$	97. $8 \times 2 = 16$
23. $16 \div 8 = 2$	48. $84 \div 7 = 12$	73. $144 \div 12 = 12$	98. $12 \times 8 = 96$
24. $9 \times 2 = 18$	49. $5 \times 3 = 15$	74. $8 \times 7 = 56$	99. $7 \times 2 = 14$
25. $18 \div 3 = 6$	50. $70 \div 10 = 7$	75. $11 \times 6 = 66$	100. $15 \div 5 = 3$