

St Denys Primary School



Year 3 and Year 4

Home Learning

**Week beginning:
6th July 2020**

**Creativity, Choice, Challenge
Achievement for All**

Year 3 and Year 4 - Home Learning

Whilst we are not expecting you to replicate school at home, it will be important that you all try to do some work each school day to keep your skills up.

And don't forget to stay active!




In this booklet you will find a range of different activities and tasks that you can choose to complete during the week.

There is also a separate booklet for each class that will contain your new spelling words and your daily Times Table Rockstar challenge. These can be collected from the school office or downloaded online.

Each morning your teacher will still be saying 'Hello' on Class Dojo. You'll also be able to ask any questions or just them about what you have been up to! As your teachers will be in school, remember they might not be able to respond straight away. You will still be able to post things to your Class Dojo portfolio but it might not always be your teacher who approves and leaves comments for you.




Class 3, if you want to try some online lessons, check out BBC Bitesize.

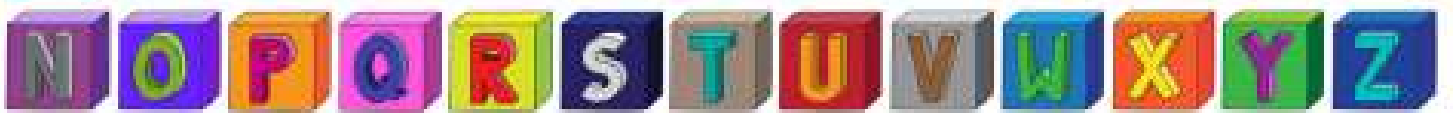
Year 3/ P4 online lessons					<div>BBC</div> <div>Bitesize</div> <div>Daily lessons</div>
Monday		Tuesday	Wednesday	Thursday	Friday
<div>English</div> <div>Revising subordinating conjunctions</div>		<div>English</div> <div>Newspaper features</div>	<div>English</div> <div>Using alliteration to write headlines</div>	<div>English</div> <div>Revising word types</div>	<div>English</div> <div>Reading lesson: TBC</div>
<div>Maths</div> <div>Measure mass in grams and kilograms</div>		<div>Maths</div> <div>Comparing mass</div>	<div>Maths</div> <div>Add and subtract masses</div>	<div>Maths</div> <div>Measure capacity in millilitres and litres</div>	<div>Maths</div> <div>Challenge of the week</div>
<div>Arts Week</div> <div>Musical performance</div>		<div>Arts Week</div> <div>Artists and art</div>	<div>Arts Week</div> <div>Drama and theatre</div>	<div>Arts Week</div> <div>Singing and wellbeing</div>	<div>Arts Week</div> <div>Ten pieces takeover</div>
Find all this content and more at: bbc.co.uk/bitesize/dailylessons					

Lessons are available daily. Here is the schedule for this week.

Class 4, if you want to try some online lessons, check out BBC Bitesize.

Year 4/ P5 online lessons					BBC Bitesize Daily lessons				
Monday 6 July - Friday 10 July									
Monday		Tuesday		Wednesday		Thursday		Friday	
English Revising conjunctions		English Newspaper features		English Using alliteration to write headlines		English Writing a newspaper report		English Reading lesson: TBC	
Maths Identifying angles		Maths Angles, comparing and ordering		Maths Classifying triangles		Maths Classifying quadrilaterals		Maths Challenge of the week	
Arts Week Musical performance		Arts Week Artists and art		Arts Week Drama and theatre		Arts Week Singing and wellbeing		Arts Week Ten pieces takeover	
Find all this content and more at: bbc.co.uk/bitesize/dailylessons									

Lessons are available daily. Here is the schedule for this week.



accident (ally)	disappear	interest	pressure
actual (ly)	early	island	probably
address	earth	knowledge	promise
answer	eight/eighth	learn	purpose
appear	enough	length	quarter
arrive	exercise	library	question
believe	experience	material	recent
bicycle	experiment	medicine	regular
breath	extreme	mention	reign
breathe	famous	minute	remember
build	favourite	natural	sentence
busy/business	February	naughty	separate
calendar	forward (s)	notice	special
caught	fruit	occasion (ally)	straight
centre	grammar	often	strange
century	group	opposite	strength
certain	guard	ordinary	suppose
circle	guide	particular	surprise
complete	heard	peculiar	therefore
consider	heart	perhaps	though/although
continue	height	popular	thought
decide	history	position	through
describe	imagine	possess (ion)	various
different	increase	possible	weight
difficult	important	potatoes	woman/women

Colour in the word if you can read it, spell it and use it in your own sentence.

Y3/4 Spellings Words Search

h	c	x	e	e	l	a	m	m	i	v	y
h	s	l	s	b	w	s	i	x	r	x	m
a	p	f	t	m	p	u	n	n	r	k	w
v	a	p	h	q	r	u	d	c	r	b	
g	r	w	r	u	o	p	t	m	g	i	y
v	t	e	o	e	m	r	e	b	g	r	c
u	i	n	u	s	i	s	u	u	v	f	
o	c	o	g	t	s	s	t	m	l	a	
e	u	u	h	i	e	e	n	n	r	r	m
a	l	g	j	o	b	e	w	e	q	a	o
h	a	h	h	n	c	c	n	d	p	u	u
m	r	k	c	a	u	g	h	t	w	t	s

- | | |
|----------|------------|
| enough | famous |
| through | particular |
| caught | question |
| century | promise |
| surprise | minute |

Y3/4 Spellings Words Search

f	g	w	r	b	e	l	i	e	v	e	e
o	j	r	e	x	g	a	a	f	f	d	e
r	w	y	a	c	r	z	e	g	g	r	i
w	c	e	r	t	a	i	n	b	h	f	g
a	k	p	l	b	m	s	a	n	j	t	h
r	u	l	y	n	m	w	u	g	k	g	t
d	e	j	j	m	a	e	g	h	y	h	x
b	c	e	n	t	r	e	h	j	r	l	n
d	j	f	w	k	o	d	t	u	y	b	r
s	u	d	h	j	p	c	y	y	n	n	a
c	q	a	p	p	e	a	r	d	d	s	q
d	i	f	f	e	r	e	n	t	v	b	j

- | | |
|---------|-----------|
| certain | early |
| eight | appear |
| naughty | different |
| believe | centre |
| grammar | forward |



Greta Spider

What are huntsman spiders?

- Huntsman spiders have two rows of eyes.
- The huntsman that was named after Greta Thunberg was found in Madagascar.

Illustration: The spider named after Greta Thunberg.

Spider Named After Greta Thunberg

If you discovered a new animal, what would you call it? Well, Peter Jaeger, a spider expert from Germany, has named a new spider **species** after Greta Thunberg. It's the 400th time he's found a new type of spider!

The spider isn't the first animal to share Greta Thunberg's name. Other scientists have named a beetle and snail after her.

Greta isn't the first person or character to have their name given to an animal. In 2017, a monkey was named after Luke Skywalker, a character in the Star Wars movies!

So, who is Greta Thunberg? She is 17 and comes from Sweden. Greta was first in the news in 2018. Every Friday, she missed school to protest outside the Swedish **parliament**. She wanted people to do more about **climate change**.

She's been to other countries to talk about climate change, too. In August, Greta sailed across the Atlantic Ocean to the USA, to talk about climate change. Greta says she doesn't use aeroplanes to travel because of

the pollution they cause. Afterwards, she had planned to travel down to Chile, in South America, but the meeting was changed and it happened in Spain. This meant that Greta then had to sail back across the Atlantic Ocean so she could go to the meeting.

Her actions inspired Peter Jaeger to name the spider after Greta. He said he did it because of her "**commitment** for a better future on our planet". Who knows if other animals will be named after her as well?

Glossary

species	Animals that are similar and can produce young.
parliament	The place where laws are talked about and passed.
climate change	The way in which the world's temperature is rising.
commitment	Making a big effort to do something.

Questions

1. Draw a line to match the country to the information in the story.

Greta comes from...

Germany

Peter Jaeger comes from...

Madagascar

The spider was found in...

the USA

Greta sailed to...

Sweden

2. Fill in the gap to complete this sentence from the story.

It's the _____ time he's found a new type of spider.

3. 'Her actions inspired Peter Jaeger.'

Tick the word that is closest in meaning to 'inspired'.

- ☐ annoyed
☐ impressed
☐ surprised
☐ saddened

4. Why do you think scientists name animals after famous people? Explain your answer.

5. Do you think Greta was right to miss school to protest? Explain why you think this.

6. Write a summary of the story in 20 words or fewer.

Word Search
4 Times Table

Answer the calculations below and find the answers in the word search:

$4 \times 3 =$
 $4 \times 4 =$
 $4 \times 11 =$

$4 \times 8 =$
 $4 \times 10 =$
 $4 \times 2 =$

Word Search
3 Times Table

Answer the calculations below and find the answers in the word search:

$3 \times 3 =$
 $3 \times 4 =$
 $3 \times 10 =$

$3 \times 6 =$
 $3 \times 2 =$
 $3 \times 7 =$

f	t	h	i	r	t	y	t	w	o
t	o	h	f	o	r	t	y	w	o
w	t	r	s	i	x	e	e	t	e
e	w	r	t	e	s	e	s	h	i
l	s	e	l	y	n	l	h	i	g
v	k	i	e	t	f	e	e	r	h
e	a	e	y	e	a	o	t	t	t
f	o	r	t	e	o	o	u	y	e
o	n	n	e	e	t	h	g	r	e
s	i	x	t	e	e	n	b	n	n

e	t	h	i	r	t	y	n	e	l
t	n	h	x	t	t	e	r	t	o
w	i	u	e	d	b	i	w	n	e
e	n	r	w	e	s	e	e	o	s
l	e	e	l	p	n	e	h	u	i
v	k	e	e	t	t	i	e	r	x
e	a	e	y	h	a	u	t	n	e
m	q	o	g	e	o	o	k	i	e
o	n	i	e	e	t	h	g	n	e
e	e	d	j	p	z	o	b	n	n

Word Search

8 Times Table

Answer the calculations below and find the answers in the word search:

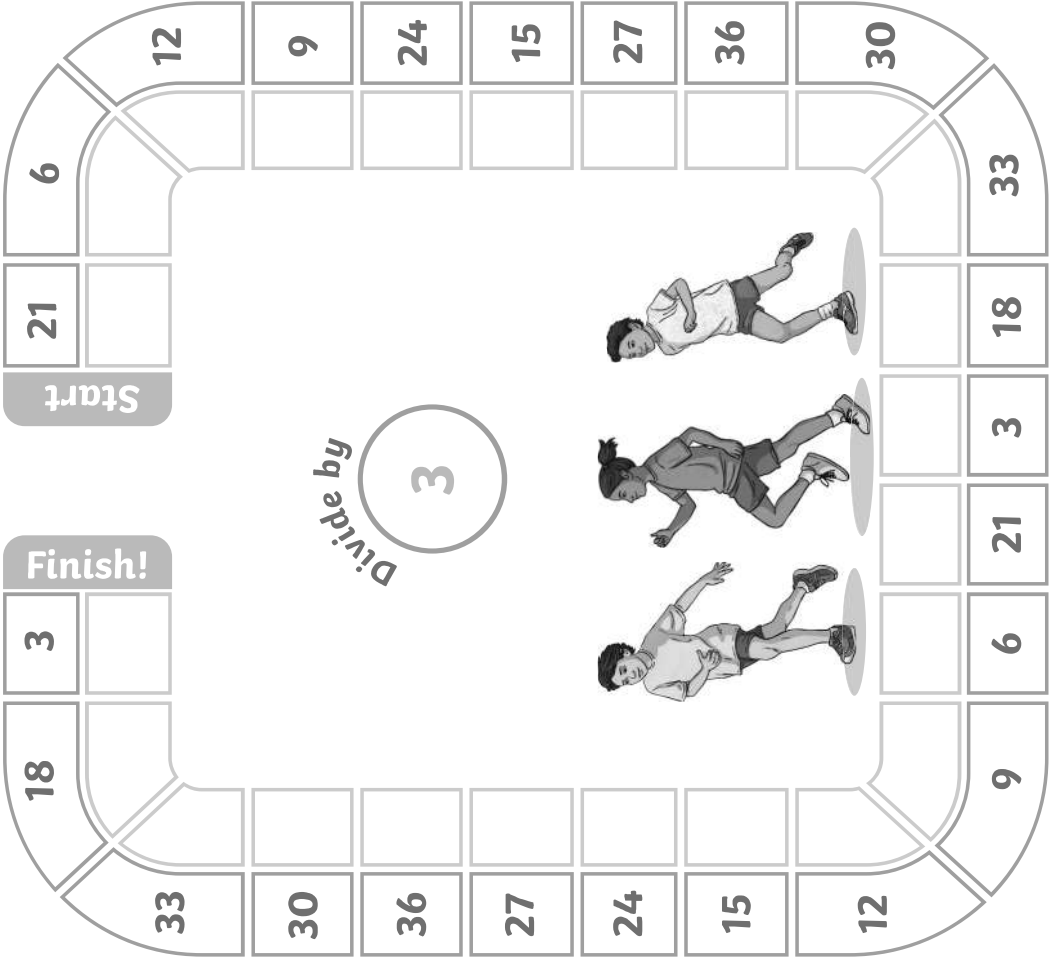
$5 \times 8 =$
 $8 \times 7 =$
 $8 \times 3 =$

$4 \times 8 =$
 $8 \times 10 =$
 $8 \times 2 =$

t	o	e	v	e	n	e	y	i	e
h	w	h	t	w	e	i	v	e	f
i	t	e	e	d	b	g	n	o	i
r	y	e	n	e	s	h	r	h	f
t	t	e	e	t	y	t	e	i	t
y	r	i	r	t	y	y	e	r	y
t	i	y	t	r	o	f	t	t	s
w	h	e	w	u	o	u	o	y	i
o	t	o	o	e	t	e	o	u	x
e	s	i	x	t	e	e	n	n	r

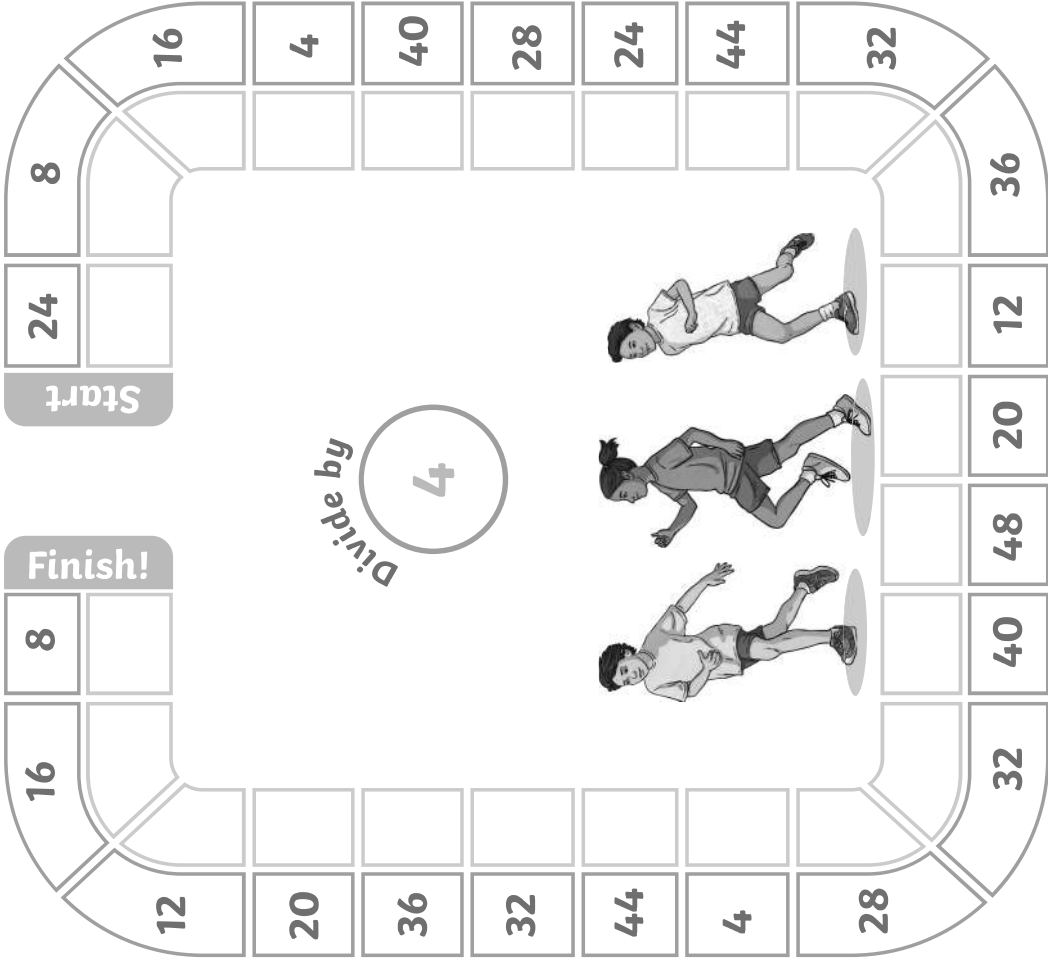
Division by 3 Race

Take the number in the circle below and divide the numbers outside of the track by it. Write your answers as you go and see how long it takes you to finish the race!



Division by 4 Race

Take the number in the circle below and divide the numbers outside of the track by it. Write your answers as you go and see how long it takes you to finish the race!



Division by 8 Race

Take the number in the circle below and divide the numbers outside of the track by it. Write your answers as you go and see how long it takes you to finish the race!

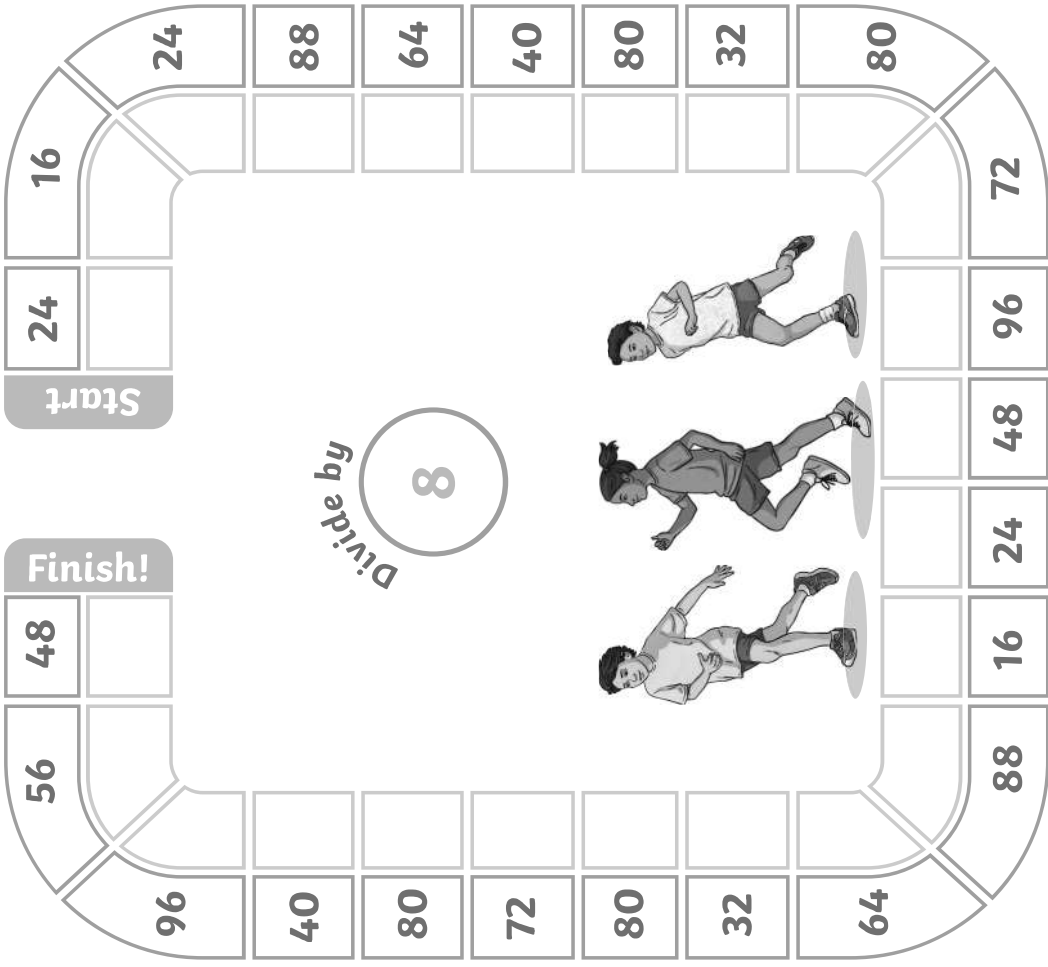


Table at the Double

Find the 2x table by doubling each number. Find the 4x table by doubling the 2x table. Find the 8 times table by doubling the 4x table. Can you complete the whole sheet?

Number	x2	x4	x8
2	4	8	16
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
15			
20			
50			
100			

Multiplication Triangles Sheet 1

Fill in the blanks in these multiplication triangles.

1

80

÷

8

x

2

÷

4

x

8

3

12

÷

÷

3

4

6

÷

3

x

5

÷

8

x

2

6

3

÷

÷

1

7

20

÷

4

x

8

÷

4

x

4

9

24

÷

÷

3

10

96

÷

8

x

11

÷

4

x

7

12

88

÷

÷

11

Multiplication Triangles Sheet 2

Fill in the blanks in these multiplication triangles.

13

$$\begin{array}{r} 24 \\ \div \\ 8 \end{array} \times \begin{array}{r} \square \\ \div \\ \square \end{array}$$

14

$$\begin{array}{r} \square \\ \div \\ 4 \end{array} \times 9 = 15$$

15

$$\begin{array}{r} 15 \\ \div \\ \square \end{array} \times 5 = 40$$

16

$$\begin{array}{r} 21 \\ \div \\ 3 \end{array} \times \begin{array}{r} \square \\ \div \\ \square \end{array}$$

17

$$\begin{array}{r} \square \\ \div \\ 8 \end{array} \times 9 = 40$$

18

$$\begin{array}{r} 40 \\ \div \\ \square \end{array} \times 5 = 21$$

19

$$\begin{array}{r} 20 \\ \div \\ 4 \end{array} \times \begin{array}{r} \square \\ \div \\ \square \end{array}$$

20

$$\begin{array}{r} \square \\ \div \\ 4 \end{array} \times 6 = 36$$

21

$$\begin{array}{r} 36 \\ \div \\ \square \end{array} \times 12 = 12$$

22

$$\begin{array}{r} 12 \\ \div \\ 3 \end{array} \times \begin{array}{r} \square \\ \div \\ \square \end{array}$$

23

$$\begin{array}{r} \square \\ \div \\ 8 \end{array} \times 8 = 56$$

24

$$\begin{array}{r} 56 \\ \div \\ \square \end{array} \times 7 = 12$$

Mental Multiplication

Try using these mental calculation strategies to see how many of these calculations you can perform mentally.

x4

Double the number and then double it again.

e.g. $13 \times 4 = 52$
 $(13 \times 2 = 26,$
 $26 \times 2 = 52)$

x5

Double the number by 10 and then half it.

e.g. $14 \times 5 = 70$
 $(14 \times 10 = 140,$
 $140 \div 2 = 70)$

x8

Double the number, double it again and then double it a third time.

e.g. $13 \times 8 = 104$
 $(13 \times 2 = 26, 26 \times 2 = 52,$
 $52 \times 2 = 104)$

x9

Multiply the number by 10 and then subtract the number.

e.g. $15 \times 9 = 135$
 $(15 \times 10 = 150,$
 $150 - 15 = 135)$

x11

Multiply the number by 10 and then add the number.

e.g. $7 \times 11 = 77$
 $(7 \times 10 = 70,$
 $7 + 7 = 77)$

x15

Multiply the number by 10 and then add half of the total.

e.g. $12 \times 15 = 180$
 $(12 \times 10 = 120,$
 $120 \div 2 = 60, 60 + 120 = 180)$

1 $14 \times 4 =$

2 $13 \times 5 =$

3 $6 \times 8 =$

4 $8 \times 9 =$

5 $9 \times 11 =$

6 $6 \times 15 =$

7 $15 \times 4 =$

8 $9 \times 5 =$

9 $12 \times 8 =$

10 $13 \times 9 =$

11 $10 \times 11 =$

12 $12 \times 15 =$

13 $15 \times 4 =$

14 $20 \times 5 =$

15 $5 \times 8 =$

16 $12 \times 9 =$

17 $13 \times 11 =$

18 $8 \times 15 =$

19 $4 \times 8 =$

20 $9 \times 15 =$

21 $11 \times 15 =$

22 $14 \times 8 =$

Multiplying 2-digit Numbers by 1-digit Numbers
Using the Grid Method

New Bus Stop Method Formal Division
of 2-digit Numbers

LO: I can use a formal method of division.

1

x	10	3
9		

2

x	70	1
5		

3

x	50	6
5		

4

x	20	3
3		

5

x	80	9
9		

6

x	60	3
7		

7

x	70	5
7		

8

x	10	3
5		

9

x	20	8
9		

10

x	50	3
8		

1 69 ÷ 3 =

16 80 ÷ 4 =

2 88 ÷ 4 =

17 95 ÷ 5 =

3 90 ÷ 5 =

18 92 ÷ 4 =

4 76 ÷ 4 =

19 46 ÷ 2 =

5 72 ÷ 3 =

20 78 ÷ 6 =

6 70 ÷ 5 =

21 92 ÷ 4 =

7 24 ÷ 2 =

22 84 ÷ 4 =

8 56 ÷ 4 =

23 72 ÷ 3 =

9 36 ÷ 3 =

24 70 ÷ 7 =

10 65 ÷ 5 =

25 88 ÷ 4 =

11 96 ÷ 4 =

26 80 ÷ 5 =

12 90 ÷ 6 =

27 98 ÷ 7 =

13 96 ÷ 8 =

28 66 ÷ 3 =

14 96 ÷ 6 =

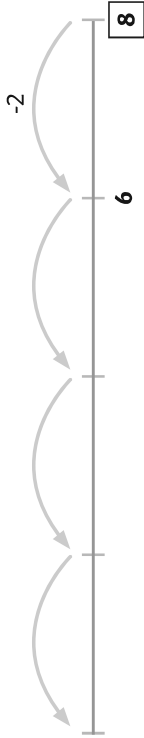
29 84 ÷ 4 =

15 88 ÷ 8 =

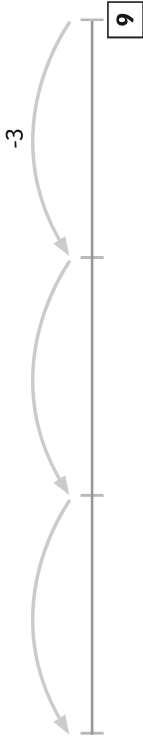
30 91 ÷ 7 =

Division using a Numberline

1 $8 \div 2 =$



2 $9 \div 3 =$



3 $12 \div 4 =$



4 $12 \div 3 =$



5 $18 \div 3 =$



6 $18 \div 6 =$



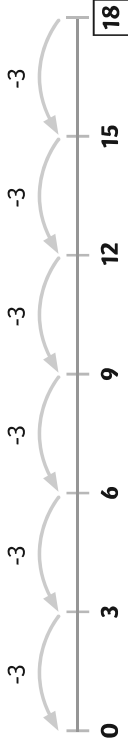
7 $36 \div 3 =$



8 $48 \div 4 =$



9 $18 \div 3 = 6$



10 $18 \div 6 =$



11 $28 \div 7 =$



12 $32 \div 8 =$



13 $42 \div 3 =$



14 $32 \div 4 =$



15 $52 \div 4 =$



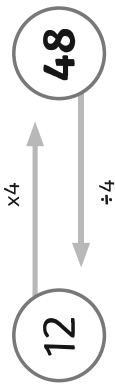
16 $70 \div 5 =$



I'm Thinking of a Number

Use the inverse operation to work backwards and find the original number.

Example:



Samiya is thinking of a number. She multiplies it by 4 and her new number is 48. What number was she first thinking of?

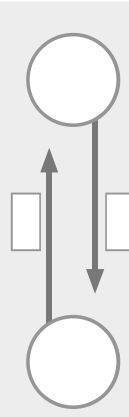
Questions:



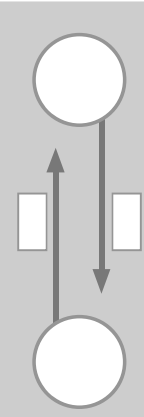
1 Nat is thinking of a number. He multiplies it by 3 and his new number is 27. What number was he first thinking of?



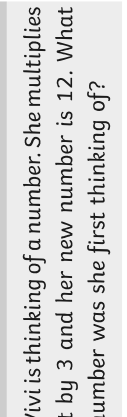
2 Shahid is thinking of a number. He divides it by 4 and his new number is 11. What number was he first thinking of?



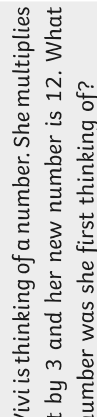
3 Esme is thinking of a number. She divides it by 8 and her new number is 5. What number was she first thinking of?



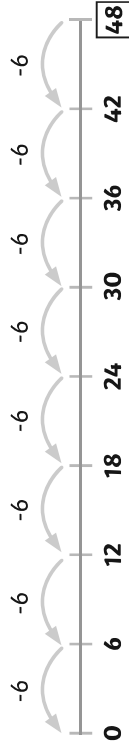
4 Taylor is thinking of a number. He multiplies it by 3 and his new number is 24. What number was he first thinking of?



5 Levi is thinking of a number. He multiplies it by 8 and his answer is 32. What number was he first thinking of?



6 Vivi is thinking of a number. She multiplies it by 3 and her new number is 12. What number was she first thinking of?



17 $48 \div 6 = 8$

18 $54 \div 6 =$

19 $96 \div 8 =$

20 $88 \div 8 =$

21 $88 \div 4 =$

22 $64 \div 8 =$

23 $91 \div 7 =$

24 $108 \div 9 =$

Deriving Related Multiplication Facts From Known Multiplication Tables

Complete the times tables question on the small lorries then use the answers to complete the associated facts on the big lorries!

1	$3 \times 4 =$	$3 \times 40 =$	$4 \times 3 =$
2	$3 \times 6 =$	$3 \times 60 =$	$6 \times 3 =$
3	$3 \times 7 =$	$3 \times 70 =$	$7 \times 3 =$
4	$4 \times 4 =$	$4 \times 40 =$	$4 \times 4 =$
5	$4 \times 7 =$	$40 \times 7 =$	$7 \times 4 =$
6	$3 \times 8 =$	$3 \times 80 =$	$8 \times 30 =$
7	$4 \times 9 =$	$4 \times 90 =$	
8	$8 \times 5 =$		
9	$8 \times 9 =$		
10	$8 \times 6 =$		

Multiplication Missing Numbers

1	$7 \times 5 =$	2	$4 \times = 16$	3	$7 \times = 56$
4	$3 \times = 18$	5	$5 \times = 40$	6	$1 \times = 8$
7	$7 \times = 28$	8	$8 \times = 32$	9	$7 \times 4 =$
10	$2 \times = 22$	11	$3 \times = 6$	12	$8 \times = 72$

Multiplication Missing Numbers

13 $3 \times \square = 24$

14 $12 \times \square = 60$

15 $\square \times 2 = 18$

16 $12 \times \square = 12$

17 $4 \times \square = 36$

18 $\square \times 3 = 27$

19 $6 \times \square = 30$

20 $5 \times \square = 55$

21 $\square \times \square = 25$

Division Missing Numbers

1 $8 \div \square = 2$

2 $\square \div 5 = 2$

3 $18 \div \square = 6$

4 $\square \div 4 = 3$

5 $12 \div \square = 4$

6 $15 \div \square = 3$

7 $\square \div 8 = 3$

8 $\square \div 5 = 4$

9 $15 \div \square = \square$

10 $9 \div \square = 3$

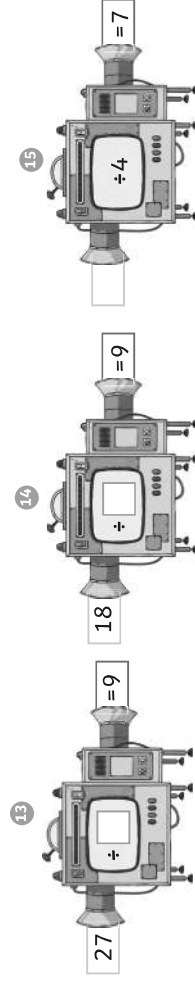
11 $14 \div \square = \square$

12 $20 \div 5 = \square$

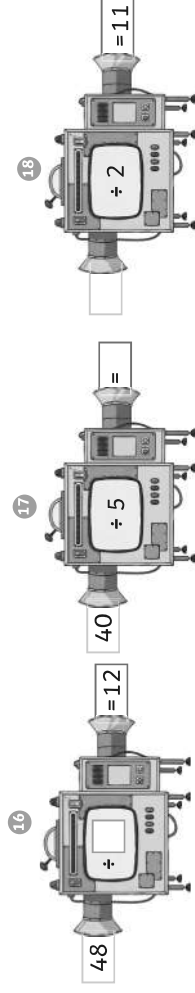
Division Missing Numbers

Scaling Problems

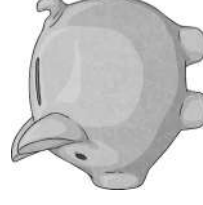
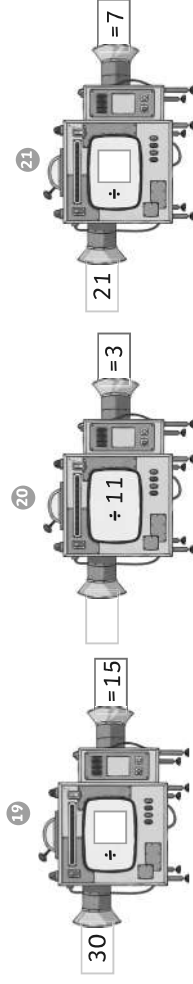
- 1 There are three biscuits in a packet. How many are there in seven packets?

[illegible]

- 2 There are six stickers in a pack, how many packs do you need to buy to have 30 stickers?

[illegible]

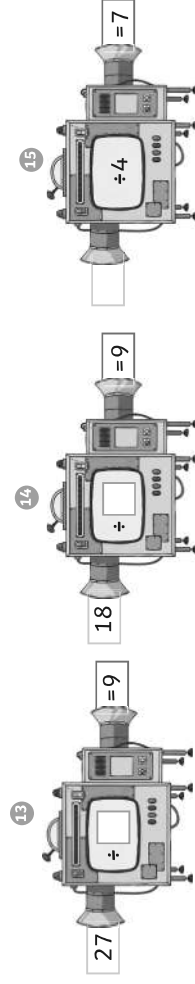
- 3 I have eight 5p coins in my money box. How much money do I have?

[illegible]

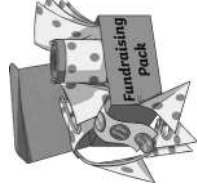
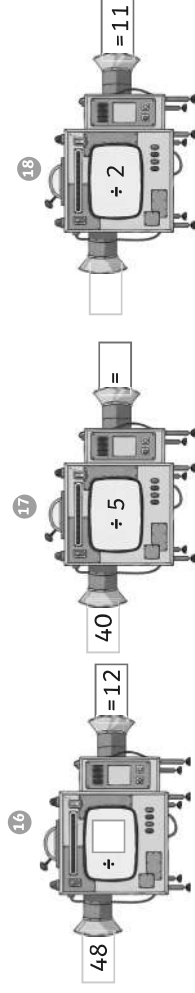
- 4 Joe builds a tower which is five bricks tall. Gina builds one four times as high. How many bricks does Gina use?

[illegible]

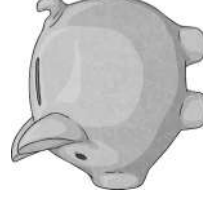
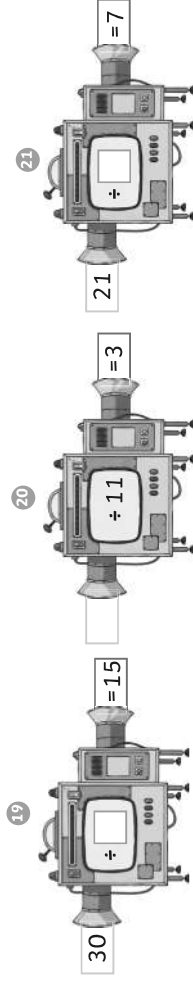
- 1 There are three biscuits in a packet. How many are there in seven packets?

[illegible]

- 2 There are six stickers in a pack, how many packs do you need to buy to have 30 stickers?

[illegible]

- 3 I have eight 5p coins in my money box. How much money do I have?

[illegible]

- 4 Joe builds a tower which is five bricks tall. Gina builds one four times as high. How many bricks does Gina use?

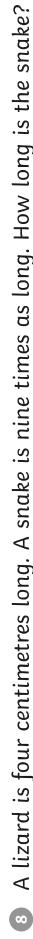
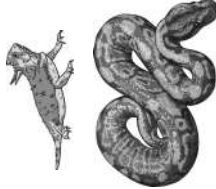
[illegible]

Colour the Division Equation

- [illegible]

[illegible]

- [illegible]

[illegible]

Colour the Division Equation

The example is $15 \div 3 = 5$ is shown below.

15	6	8	60	5	12	1	12
5	1	5	7	16	4	23	12
3	21	4	9	7	3	1	1
8	3	20	10	2	17	16	1
4	1	1	5	3	16	2	8
32	18	9	2	2	4	7	2
25	3	15	3	4	4	4	16
18	6	1	6	9	13	9	14

88	10	31	1	41	21	6	27
8	25	23	4	4	7	9	9
11	1	11	9	21	3	9	3
3	15	5	2	10	12	14	24
33	3	55	3	4	4	16	8
4	44	11	2	40	8	5	15
7	8	13	2	5	2	10	20
28	4	7	8	8	4	2	2

24	12	2	1	3	7	14	35
21	17	4	9	8	10	2	5
19	20	8	4	32	2	7	7
6	10	2	20	11	5	5	25
5	5	4	5	15	3	1	3
4	2	3	6	2	36	5	2
4	18	9	10	13	12	2	6
16	16	3	27	9	14	12	15

14	18	20	2	10	2	15	6
7	17	4	9	8	4	32	23
2	10	5	22	80	14	8	16
11	9	3	9	28	7	4	10
7	90	15	13	8	35	19	24
25	4	2	15	3	5	6	30
21	12	4	5	12	20	20	10
48	6	8	12	4	4	16	3

Weekly Writing Challenge

This week, you are going to plan and write a short story. The idea for your story is '**The Suitcase**'.

Imagine you find an old suitcase in a dusty attic. Describe the things that you find inside.

Things to think about:

- How old are the objects?
- What do the objects look like?
- Who do you think the suitcase may have belonged to?
- What are you going to do with the suitcase and the contents?
- What type of story will this be? Mystery? Adventure? Scary? Science fiction?

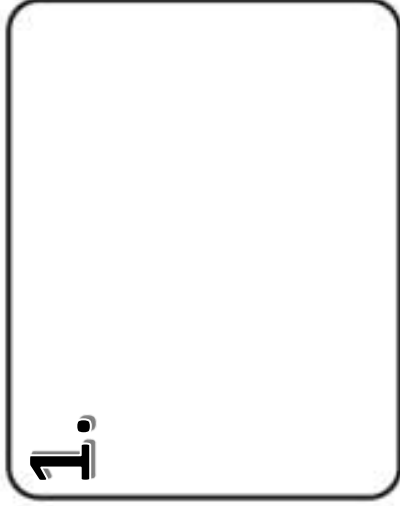


Remember to:

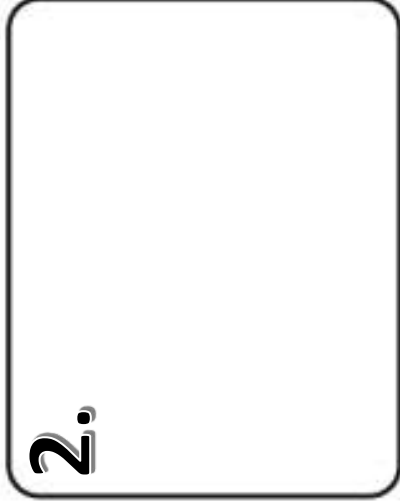
- Plan your story with a beginning, middle and end. How are you going to hook the reader at the start? Create a storyboard to tell your story.
- Organise your ideas into paragraphs.
- Choose your words carefully to entertain the reader.
- Write in sentences. Try to think of really good descriptive words to use.
- Pay attention to your spelling and punctuation.
- Read, check and edit your work carefully.
- Decide how you are going to publish your story: writing it out, typing it, making a book?

The Suitcase

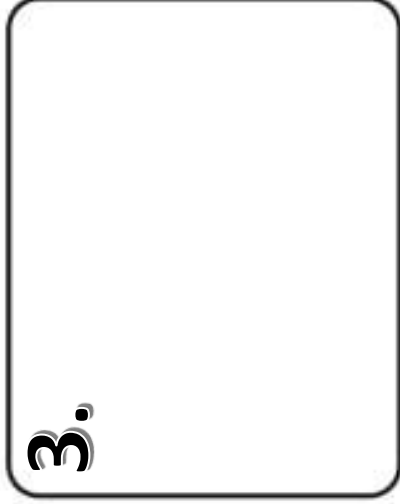
1.



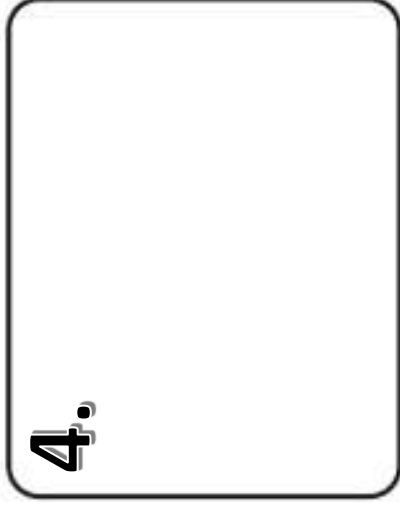
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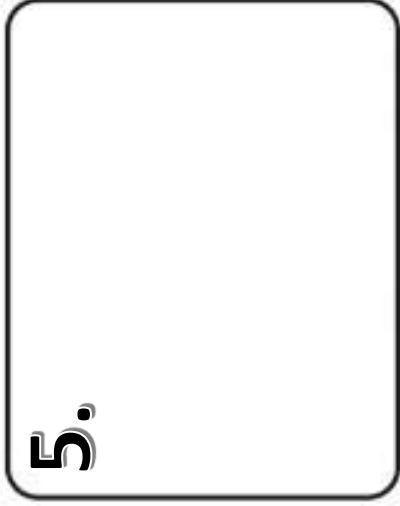
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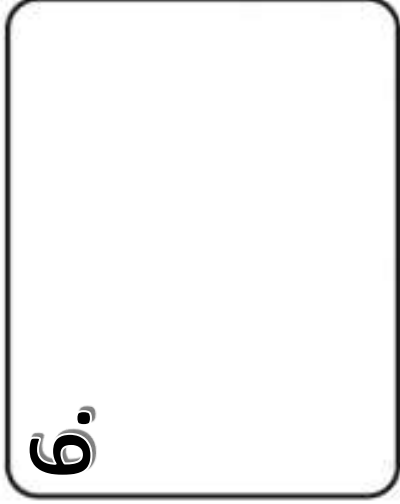
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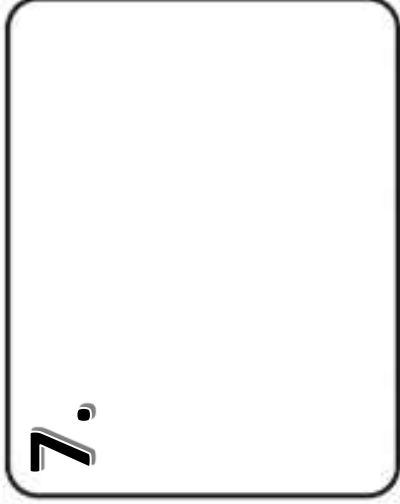
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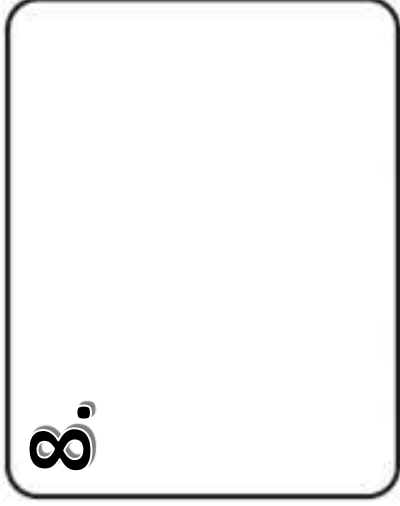
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7.



8.



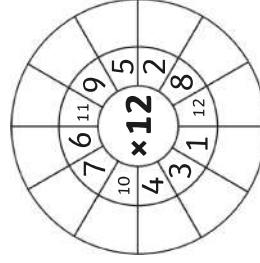
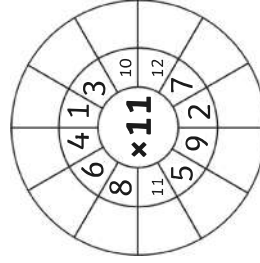
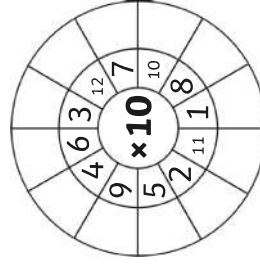
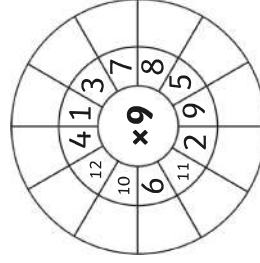
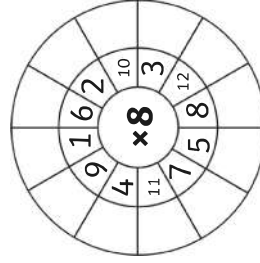
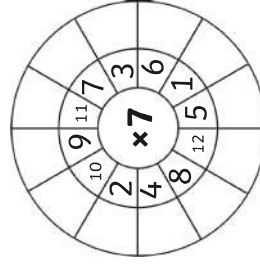
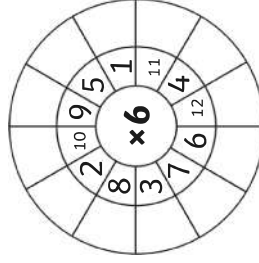
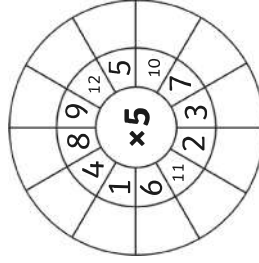
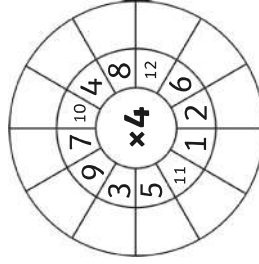
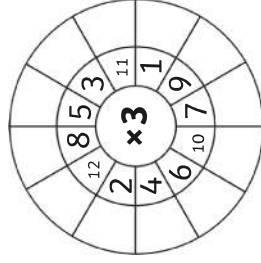
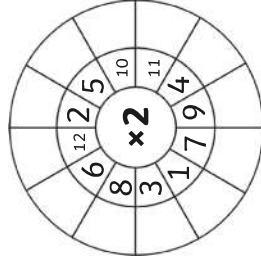
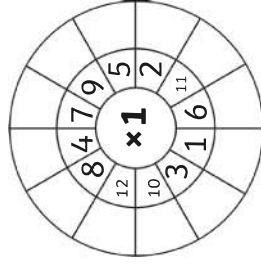


[illegible]



Multiplication Wheels

Multiply the numbers by the middle number.



Multiplying Three Numbers

1. $2 \times 1 \times 2 =$		
3. $3 \times 0 \times 3 =$		
5. $4 \times 3 \times 4 =$		
7. $2 \times 8 \times 2 =$		
9. $5 \times 2 \times 4 =$		
11. $2 \times 4 \times 8 =$		
13. $9 \times 2 \times 5 =$		
15. $4 \times 4 \times 4 =$		
17. $6 \times 2 \times 6 =$		
19. $4 \times 2 \times 8 =$		
2. $3 \times 2 \times 3 =$		
4. $4 \times 3 \times 2 =$		
6. $5 \times 4 \times 5 =$		
8. $2 \times 7 \times 4 =$		
10. $1 \times 3 \times 9 =$		
12. $2 \times 3 \times 9 =$		
14. $2 \times 2 \times 9 =$		
16. $3 \times 3 \times 3 =$		
18. $7 \times 1 \times 2 =$		
20. $10 \times 2 \times 3 =$		

Multiplying by 1 and 0 and Dividing by 1

A. Calculate:

$$1. \quad 12 \times 1 =$$

10. $1 \times 31 =$

$$2. \quad 1 \times 82 =$$

11. $0 \times 0 =$

$$= 3 \times 10 \times 1$$

$$12.0 \div 1 =$$

4. $25 \times 1 =$

13. $50 \times 1 =$

$$5. \quad 342 \times 1 =$$

14. $1 \times 50 =$

6. $212 \div 1 =$

$$15.1 \times 3983 =$$

7. $4567 \times 0 =$

16. $26 \div 1 =$

$$= 1 \times 1 \times \infty$$

17. $1 \div 1 =$

$$9.0 \times 10^{11}$$

$$18. \quad 156 \times 0 =$$

B. Write the calculation represented by these word problems then solve the word problem.

1. Dave buys 72 eggs and puts them all in one basket.

How many eggs are in the basket?

Calculation =

Answer =

2. Bobbie finds a shop selling games consoles for £79. She buys one game console. How much does she spend?

Calculation =

Answer =

3. Samit's dad earns £65 per shift, but last week he could not work as he was ill. How much did he earn altogether last week?

Calculation =

Answer =

C. Work your way across each grid applying each operation to the answer from the previous calculation.

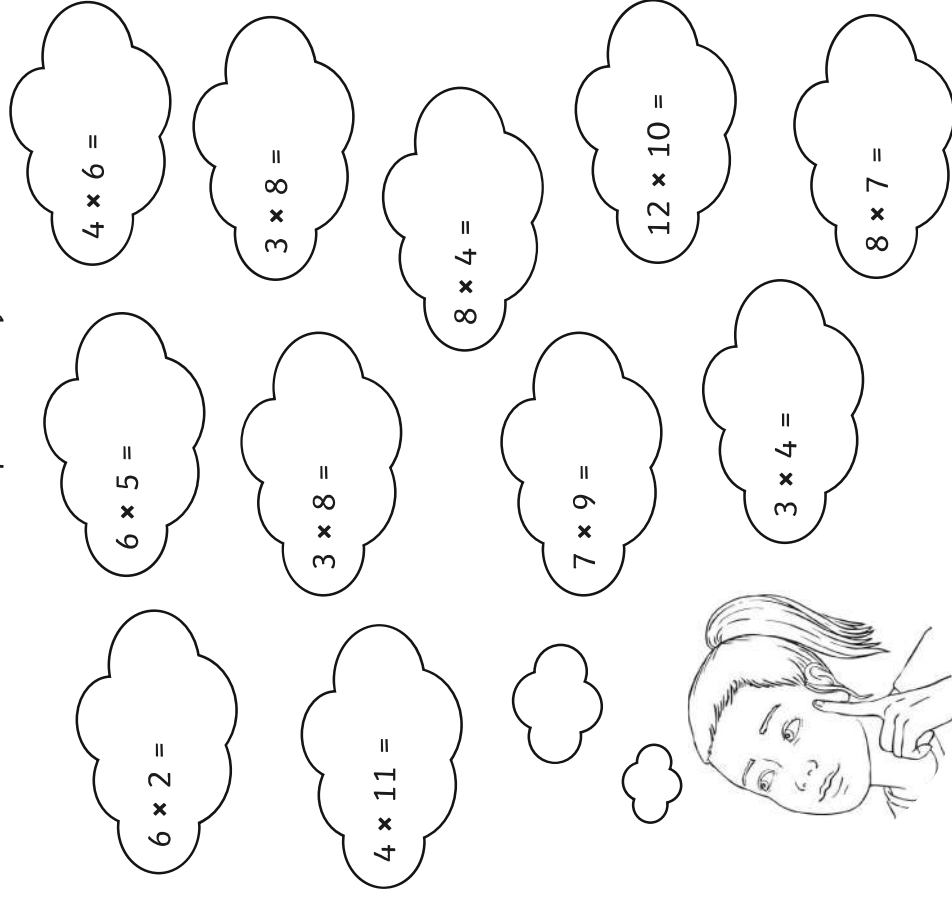
Beginning Number	$\div 1$	$\times 1$	$\times 0$	$\div 1$	Ending Number
32					

Beginning Number	$\div 1$	$\times 1$	$\times 1$	$\times 0$	Ending Number
1					

Beginning Number	x1	÷1	x1	÷1	Ending Number
10 000					

Multiplying Mentally Using Known Facts

Start this activity by recording the answers to these multiplication questions.



$6 \times 20 =$	$40 \times 11 =$	$6 \times 50 =$	$40 \times 6 =$	$3 \times 80 =$
$80 \times 4 =$	$7 \times 90 =$	$120 \times 10 =$	$3 \times 40 =$	$80 \times 7 =$
$600 \times 2 =$	$4 \times 1100 =$	$600 \times 5 =$	$4 \times 600 =$	$300 \times 8 =$
$8 \times 400 =$	$700 \times 9 =$	$12 \times 1000 =$	$300 \times 4 =$	$8 \times 700 =$
$60 \times 20 =$	$40 \times 110 =$	$60 \times 50 =$	$40 \times 60 =$	$30 \times 80 =$
$80 \times 40 =$	$70 \times 90 =$	$120 \times 100 =$	$30 \times 40 =$	$80 \times 70 =$

Dividing Mentally Using Known Facts

Start this activity by recording the answers to these division questions.

24 ÷ 6 =

36 ÷ 9 =

21 ÷ 3 =

42 ÷ 6 =

18 ÷ 6 =

48 ÷ 8 =


54 ÷ 6 =

49 ÷ 7 =

36 ÷ 6 =

28 ÷ 4 =

210 ÷ 3 =



The Commutative Law of Multiplication

Write the order in which you think it is best to multiply these numbers and then work out the calculation.

Tip: you may not need to change every calculation.

Example: $4 \times 17 = 17 \times 4 = 68$

$17 \times 4 =$	\times	\quad	$=$	\quad	$4 \times 29 =$	\times	\quad	$=$
$3 \times 24 =$	\times	\quad	$=$	\quad	$28 \times 8 =$	\times	\quad	$=$
$5 \times 17 =$	\times	\quad	$=$	\quad	$7 \times 17 =$	\times	\quad	$=$
$29 \times 6 =$	\times	\quad	$=$	\quad	$15 \times 8 =$	\times	\quad	$=$
$4 \times 18 =$	\times	\quad	$=$	\quad	$5 \times 27 =$	\times	\quad	$=$
$7 \times 11 =$	\times	\quad	$=$	\quad	$3 \times 24 =$	\times	\quad	$=$
$19 \times 3 =$	\times	\quad	$=$	\quad	$17 \times 3 =$	\times	\quad	$=$
$7 \times 30 =$	\times	\quad	$=$	\quad	$4 \times 14 =$	\times	\quad	$=$
$8 \times 21 =$	\times	\quad	$=$	\quad	$6 \times 24 =$	\times	\quad	$=$
$3 \times 18 =$	\times	\quad	$=$	\quad	$21 \times 5 =$	\times	\quad	$=$
$28 \times 9 =$	\times	\quad	$=$	\quad	$8 \times 26 =$	\times	\quad	$=$
$2 \times 15 =$	\times	\quad	$=$	\quad	$9 \times 24 =$	\times	\quad	$=$
$12 \times 4 =$	\times	\quad	$=$	\quad	$7 \times 29 =$	\times	\quad	$=$
$29 \times 5 =$	\times	\quad	$=$	\quad	$27 \times 6 =$	\times	\quad	$=$
$7 \times 27 =$	\times	\quad	$=$	\quad	$5 \times 17 =$	\times	\quad	$=$

Using Commutativity in Mental Calculations

Look at the following questions. Decide if you can use the principle of commutativity (doing the multiplication in any order) to make the calculations easier to answer. If you can't make them any easier, just change the order anyway!

e.g. $2 \times 9 \times 5 =$	Five multiplied by two equals ten – doing that first makes any subsequent calculation easy! $5 \times 2 \times 9 = 10 \times 9 = 90$
e.g. $9 \times 2 \times 8 =$	9×8 is from a multiplication table you may already know. You can finish the calculation by just doubling the answer. $9 \times 8 \times 2 = 72 \times 2 = 144$

1. $12 \times 2 \times 5 =$	
2. $2 \times 13 \times 2 =$	
3. $5 \times 10 \times 4 =$	

4. $5 \times 5 \times 2 =$	
5. $5 \times 4 \times 5 =$	
6. $12 \times 5 \times 10 =$	
7. $14 \times 5 \times 2 =$	
8. $7 \times 13 \times 0 =$	
9. $2 \times 2 \times 11 \times 2 =$	
10. $10 \times 136 \times 10 =$	
11. $1 \times 2 \times 3 \times 4 \times 5 =$	

Multiplying Two-Digit Numbers by One-Digit Numbers

Answers

1.

24

x 4

22

x 5

18

x 5

26

x 3
5.

12

x 5

48

x 2

41

x 9

31

x 7
9.

44

x 7

32

x 7

62

x 3

66

x 4
13.

82

x 4

87

x 8

94

x 8

53

x 8
17.

85

x 4

75

x 3

68

x 6

78

x 7

Three Digit × One Digit Multiplication

Answer these calculations using either the compact method or the long multiplication method:

1. 167 × 3	2. 137 × 3
3. 261 × 4	4. 319 × 3
5. 629 × 5	6. 417 × 6
7. 130 × 9	8. 617 × 9
9. 243 × 4	

Missing Numbers 2-Digit × 1-Digit Multiplication

Calculate the missing digits in these calculations.

$$\begin{array}{r} 1. \quad \boxed{}8 \\ \times \boxed{} \\ \hline 272 \end{array}$$

$$\begin{array}{r} 2. \quad 8\boxed{} \\ \times 4 \\ \hline 324 \end{array}$$

$$\begin{array}{r} 3. \quad \boxed{}4 \\ \times \boxed{} \\ \hline 84 \end{array}$$

$$\begin{array}{r} 4. \quad \boxed{}1 \\ \times \boxed{} \\ \hline 205 \end{array}$$

$$\begin{array}{r} 5. \quad 3\boxed{} \\ \times 3 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 6. \quad \boxed{}7 \\ \times \boxed{} \\ \hline 485 \end{array}$$

$$\begin{array}{r} 7. \quad 2\boxed{} \\ \times 2 \\ \hline 44 \end{array}$$

$$\begin{array}{r} 8. \quad 2\boxed{} \\ \times 4 \\ \hline 108 \end{array}$$

$$\begin{array}{r} 9. \quad \boxed{}0 \\ \times \boxed{} \\ \hline 200 \end{array}$$

$$\begin{array}{r} 10. \quad \boxed{}1 \\ \times \boxed{} \\ \hline 33 \end{array}$$

$$\begin{array}{r} 11. \quad 6\boxed{} \\ \times 4 \\ \hline 244 \end{array}$$

$$\begin{array}{r} 12. \quad 3\boxed{} \\ \times 2 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 13. \quad 2\boxed{} \\ \times 5 \\ \hline 110 \end{array}$$

$$\begin{array}{r} 14. \quad \boxed{}9 \\ \times 3 \\ \hline 273 \end{array}$$

$$\begin{array}{r} 15. \quad \boxed{}8 \\ \times 3 \\ \hline 267 \end{array}$$

$$\begin{array}{r} 16. \quad \boxed{}0 \\ \times \boxed{} \\ \hline 40 \end{array}$$

$$\begin{array}{r} 17. \quad \boxed{}4 \\ \times \boxed{} \\ \hline 336 \end{array}$$

$$\begin{array}{r} 18. \quad \boxed{}5 \\ \times 2 \\ \hline 110 \end{array}$$

$$\begin{array}{r} 19. \quad 9\boxed{} \\ \times 5 \\ \hline 460 \end{array}$$

$$\begin{array}{r} 20. \quad \boxed{}3 \\ \times \boxed{} \\ \hline 372 \end{array}$$

$$\begin{array}{r} 21. \quad \boxed{}1 \\ \times 3 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 22. \quad \boxed{}8 \\ \times \boxed{} \\ \hline 294 \end{array}$$

$$\begin{array}{r} 23. \quad \boxed{}2 \\ \times 4 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 24. \quad \boxed{}1 \\ \times 3 \\ \hline 33 \end{array}$$

Multiplying 3-Digit by 1-Digit Numbers

Calculate the missing number in these calculations.

$$\begin{array}{r} 25. \quad \begin{array}{r} \square 9 \\ \times \\ \hline 118 \end{array} \end{array}$$

$$\begin{array}{r} 26. \quad \begin{array}{r} \square 2 \\ \times \\ \hline 72 \end{array} \end{array}$$

$$\begin{array}{r} 27. \quad \begin{array}{r} \square 1 \\ \times \\ \hline 155 \end{array} \end{array}$$

$$\begin{array}{r} 28. \quad \begin{array}{r} \square 4 \\ \times 3 \\ \hline 141 \end{array} \end{array}$$

$$\begin{array}{r} 29. \quad \begin{array}{r} \square 5 \\ \times 3 \\ \hline 174 \end{array} \end{array}$$

$$\begin{array}{r} 30. \quad \begin{array}{r} \square 3 \\ \times \\ \hline 415 \end{array} \end{array}$$

$$1. \quad \begin{array}{r} 2_4 \\ \times \overline{} \\ \hline 856 \end{array}$$

$$7. \quad \begin{array}{r} _1_ \\ \times 2 \\ \hline 432 \end{array}$$

$$13. \quad \begin{array}{r} _7_ \\ \times 5 \\ \hline 3380 \end{array}$$

$$2. \quad \begin{array}{r} _0_ \\ \times 4 \\ \hline 1204 \end{array}$$

$$8. \quad \begin{array}{r} _0_ \\ \times 4 \\ \hline 836 \end{array}$$

$$14. \quad \begin{array}{r} _7_ \\ \times 3 \\ \hline 834 \end{array}$$

$$3. \quad \begin{array}{r} 8_5 \\ \times \overline{} \\ \hline 4950 \end{array}$$

$$9. \quad \begin{array}{r} 9_6 \\ \times \overline{} \\ \hline 3864 \end{array}$$

$$15. \quad \begin{array}{r} _5_ \\ \times 3 \\ \hline 477 \end{array}$$

$$4. \quad \begin{array}{r} 6_6 \\ \times \overline{} \\ \hline 3280 \end{array}$$

$$10. \quad \begin{array}{r} 3_5 \\ \times 3 \\ \hline 1035 \end{array}$$

$$16. \quad \begin{array}{r} 8_6 \\ \times \overline{} \\ \hline 3384 \end{array}$$

$$5. \quad \begin{array}{r} _4_ \\ \times 3 \\ \hline 1620 \end{array}$$

$$11. \quad \begin{array}{r} _4_ \\ \times 4 \\ \hline 584 \end{array}$$

$$17. \quad \begin{array}{r} 5_6 \\ \times \overline{} \\ \hline 2144 \end{array}$$

$$6. \quad \begin{array}{r} 9_8 \\ \times \overline{} \\ \hline 4890 \end{array}$$

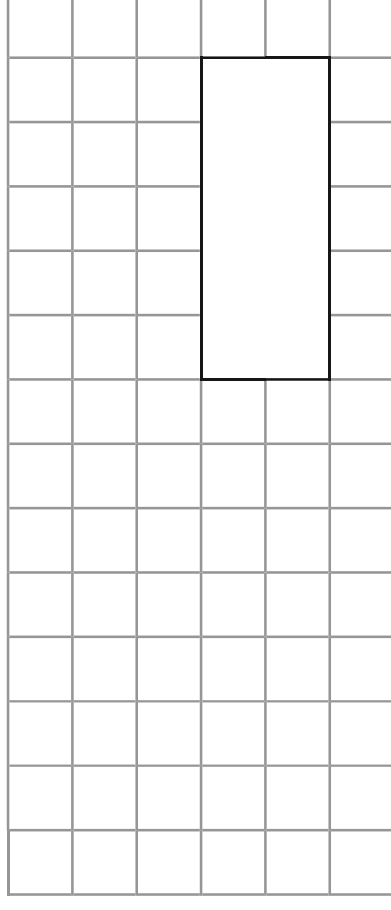
$$12. \quad \begin{array}{r} _3_ \\ \times 2 \\ \hline 1876 \end{array}$$

$$18. \quad \begin{array}{r} _6_ \\ \times 2 \\ \hline 730 \end{array}$$

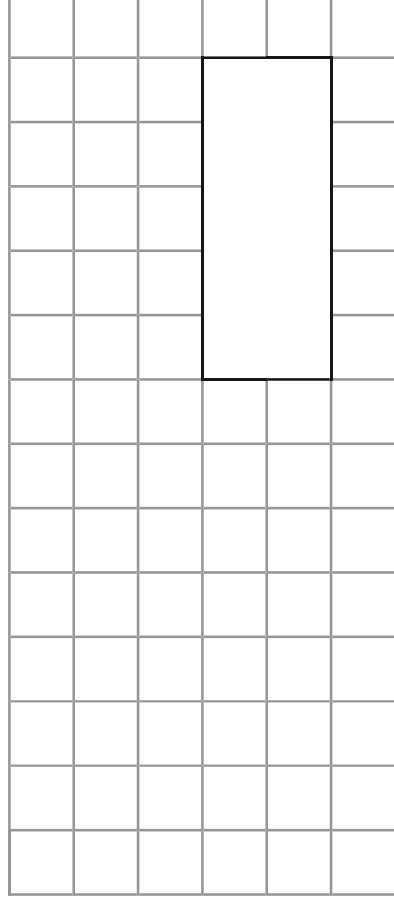
Problems Involving Scaling Worksheet

Scale the information you have been given up or down to find the answer to each question.

1. Eggs cost 90p for 6. How much would 36 eggs cost?



2. The length of a toy car is 3cm. Tony wants to make a drawing which is 17 times bigger. How long will the car be in his drawing?



$$\begin{array}{r} 35. \quad _0_ \\ \times \quad 5 \\ \hline 4535 \end{array}$$

$$\begin{array}{r} 36. \quad _2_ \\ \times \quad 2 \\ \hline 258 \end{array}$$

$$\begin{array}{r} 37. \quad _8_ \\ \times \quad 2 \\ \hline 1766 \end{array}$$

$$\begin{array}{r} 38. \quad _6_ \\ \times \quad 4 \\ \hline 3444 \end{array}$$

$$\begin{array}{r} 39. \quad _5_ \\ \times \quad 6 \\ \hline 5124 \end{array}$$

$$\begin{array}{r} 40. \quad 6_5 \\ \times \quad _ \\ \hline 3225 \end{array}$$

$$\begin{array}{r} 27. \quad 1_6 \\ \times \quad _ \\ \hline 680 \end{array}$$

$$\begin{array}{r} 28. \quad 4_2 \\ \times \quad _ \\ \hline 1446 \end{array}$$

$$\begin{array}{r} 29. \quad _0_ \\ \times \quad 3 \\ \hline 1518 \end{array}$$

$$\begin{array}{r} 30. \quad 4_1 \\ \times \quad _ \\ \hline 2055 \end{array}$$

$$\begin{array}{r} 31. \quad _4_ \\ \times \quad 6 \\ \hline 4494 \end{array}$$

$$\begin{array}{r} 32. \quad _4_ \\ \times \quad 2 \\ \hline 292 \end{array}$$

$$\begin{array}{r} 33. \quad 8_2 \\ \times \quad _ \\ \hline 1644 \end{array}$$

$$\begin{array}{r} 34. \quad 6_3 \\ \times \quad _ \\ \hline 1346 \end{array}$$

$$\begin{array}{r} 19. \quad _7_ \\ \times \quad 5 \\ \hline 1355 \end{array}$$

$$\begin{array}{r} 20. \quad 8_4 \\ \times \quad _ \\ \hline 3336 \end{array}$$

$$\begin{array}{r} 21. \quad _5_ \\ \times \quad 3 \\ \hline 1056 \end{array}$$

$$\begin{array}{r} 22. \quad 7_2 \\ \times \quad _ \\ \hline 2226 \end{array}$$

$$\begin{array}{r} 23. \quad _8_ \\ \times \quad 4 \\ \hline 740 \end{array}$$

$$\begin{array}{r} 24. \quad _0_ \\ \times \quad 3 \\ \hline 1200 \end{array}$$

$$\begin{array}{r} 25. \quad 1_9 \\ \times \quad _ \\ \hline 338 \end{array}$$

$$\begin{array}{r} 26. \quad _7_ \\ \times \quad 6 \\ \hline 3456 \end{array}$$

Correspondence Type Word Problems

1. Greg gets paid 7p for every newspaper he delivers. How many must he deliver to earn at least 5 pounds?

A 10x10 grid is shown. A rectangle is drawn in the top right corner, spanning 4 columns and 4 rows. The rectangle is outlined in black and is empty. It occupies the top-right quadrant of the grid.

2. A pizza restaurant offers five different pizzas (Hawaiian, Pepperoni, Vegetarian, Meat Feast and Margherita) and five types of base (Italian, Deep Pan, Stuffed Crust, Square and Thin and Crispy). How many different combinations are available?

A 10x10 grid is shown. A rectangle is drawn in the top right corner, spanning 4 columns and 3 rows. The rectangle is outlined in black and is empty. It occupies the top-right portion of the grid, specifically the area from column 7 to column 10 and row 8 to row 10.

3. Travis has designed a computer program which multiplies any number put in by a number chosen by the computer. He inputs four numbers and the answers which come out are 49, 126, 98 and 154. Which number might his program be multiplying by?

A 10x10 grid of squares. A 4x4 rectangle is highlighted in the top right corner, spanning from the 7th column to the 10th column and from the 1st row to the 4th row. The highlighted rectangle is outlined in black.

4. Gerrard is making a sequence with shapes – he uses 4 squares, 6 triangles and 3 circles. If he uses the same pattern to make a longer sequence, how many squares would he use if he used 65 shapes in total?

A 10x10 grid of squares. A rectangle is highlighted in the top right corner, spanning 3 rows and 4 columns. The rectangle is defined by the intersection of the 7th, 8th, and 9th horizontal grid lines and the 6th, 7th, 8th, and 9th vertical grid lines. The rectangle is empty and has a black border.



Bee Quack

What is a queen bee?

- Honeybee colonies can have up to 50 000 bees in them, but only one is the queen bee.
- Queen bees are created when, as larvae, they are fed royal jelly.

Photo: Honeybees.

Scientists Study Why Bees 'Quack'

We all know that bees buzz. However, did you know they can 'toot' and 'quack' too?

It used to be believed that the 'tooting' and 'quacking' sounds queen bees make were aimed at other queen bees. It was thought the noises were signs of anger.

However, researchers at Nottingham Trent University, UK, have been studying these noises and they think they have a new **theory**.

The scientists think that the sounds are instructions for the worker bees instead.

When a queen bee is ready to hatch, she makes 'quacking' noises.

The scientists think this is to let the worker bees nearby know that she is ready to **emerge**.

After hatching, her 'quacks' become 'toots'.

When the worker bees hear the 'toots', they try to keep the other queen bees (who are still waiting to hatch) **captive**.

If two queen bees emerge at the same time, they will fight to the death.

When hearing the 'toots', the worker bees also get ready to swarm. This is when a new queen bee, and up to half the bees in the hive, leave to set up a new **colony**.

Honey bees are really important for the environment because they pollinate plants. Pollination is how plants make new seeds. The researchers hope that their findings will help beekeepers to better look after these helpful little creatures.

Glossary

theory	An idea based on scientific research.
emerge	Break out from an egg or cocoon.
captive	A person or animal which is imprisoned or confined.
colony	A group of animals that live together.

Questions

1. How does a queen bee let other bees know she is ready to hatch?

2. In the paragraph beginning “It used to be believed...” which word means ‘for the attention of’?

3. Tick the boxes to show if each statement is true or false.

	True	False
All bees can ‘toot’ and ‘quack’ as well as buzz.		
Queen bees ‘toot’ before hatching.		
If two queen bees emerge at the same time, they work together to build a stronger hive.		
The researchers hope their findings will help beekeepers.		

4. Which of these alternative headlines best summarises the story?

- ☐ Pollinators under Threat from Queen Bees
- ☐ Honeybees Play Instruments
- ☐ Queen Bees Talk to Their Workers
- ☐ Bees Communicate with Other Species

5. Using information from the article, fill in the gaps to complete the following sentences.

Scientists think _____ ‘quack’ to tell worker bees that they are ready to hatch. They then ‘toot’ to tell the _____ to keep the other queen bees sealed up and to prepare to _____.

6. How have scientists’ thoughts about queen bees ‘tooting’ and ‘quacking’ changed?

Word Search
4 Times Table

Answer the calculations below and find the answers in the word search:

$4 \times 3 = 12$
 $4 \times 4 = 16$
 $4 \times 11 = 44$

$4 \times 8 = 32$
 $4 \times 10 = 40$
 $4 \times 2 = 8$

Word Search
3 Times Table

Answer the calculations below and find the answers in the word search:

$3 \times 3 = 9$
 $3 \times 4 = 12$
 $3 \times 10 = 30$

$3 \times 6 = 18$
 $3 \times 2 = 6$
 $3 \times 7 = 21$

f	t	h	i	r	t	y	t	w	o
t	o	h	f	o	r	t	y	w	o
w	t	r	s	i	x	e	e	t	e
e	w	r	t	e	s	e	s	h	i
l	s	e	l	y	n	l	h	i	g
v	k	i	e	t	f	e	e	r	h
e	a	e	y	e	a	o	t	t	t
f	o	r	t	e	o	o	u	y	e
o	n	n	e	e	t	h	g	r	e
s	i	x	t	e	e	n	b	n	n

e	t	h	i	r	t	y	n	e	l
t	n	h	x	t	t	e	r	t	o
w	i	u	e	d	b	i	w	n	e
e	n	r	w	e	s	e	e	o	s
l	e	e	l	p	n	e	h	u	i
v	k	e	e	t	t	i	e	r	x
e	a	e	y	h	a	u	t	n	e
m	q	o	g	e	o	o	k	i	e
o	n	i	e	e	t	h	g	n	e
e	e	d	j	p	z	o	b	n	n

Word Search

8 Times Table

Answer the calculations below and find the answers in the word search:

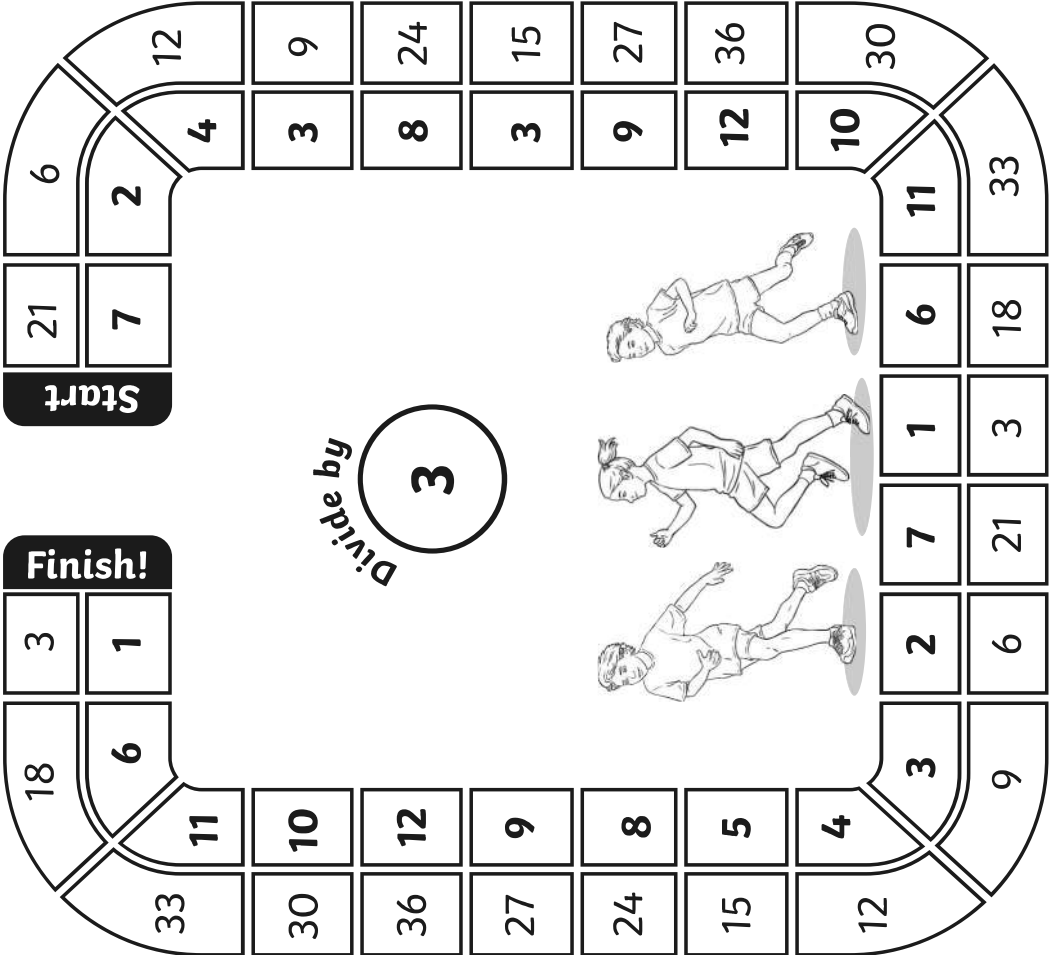
$5 \times 8 = 40$
 $8 \times 7 = 56$
 $8 \times 3 = 24$

$4 \times 8 = 32$
 $8 \times 10 = 20$
 $8 \times 2 = 16$

t	o	e	v	e	n	e	y	i	e
h	w	h	t	w	e	i	v	e	f
i	t	e	e	d	b	g	n	o	i
r	y	e	n	e	s	h	r	h	f
t	t	e	e	t	y	t	e	i	t
y	r	i	r	t	y	y	e	r	y
t	i	y	t	r	o	f	t	t	s
w	h	e	w	u	o	u	o	y	i
o	t	o	o	e	t	e	o	u	x
e	s	i	x	t	e	e	n	n	r

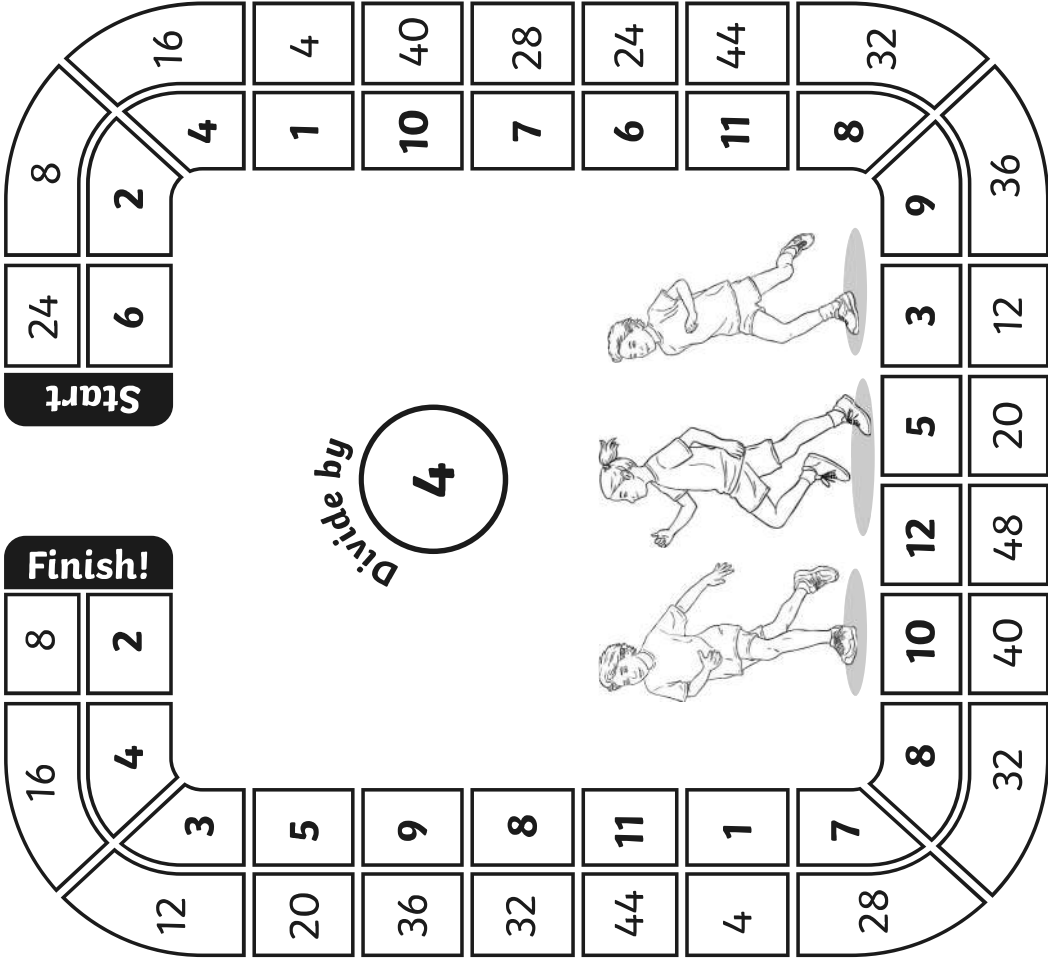
Division by 3 Race

Take the number in the circle below and divide the numbers outside of the track by it. Write your answers as you go and see how long it takes you to finish the race!



Division by 4 Race

Take the number in the circle below and divide the numbers outside of the track by it. Write your answers as you go and see how long it takes you to finish the race!



Division by 8 Race

Take the number in the circle below and divide the numbers outside of the track by it. Write your answers as you go and see how long it takes you to finish the race!

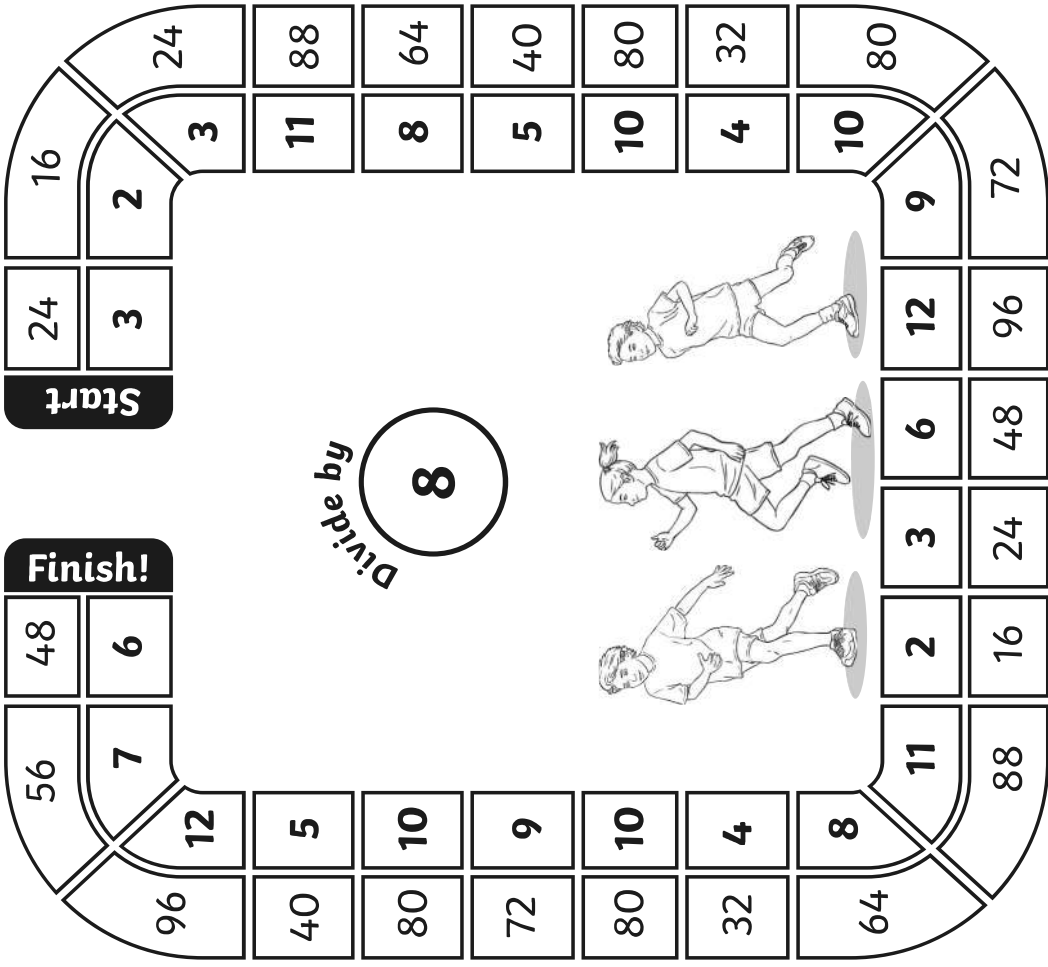


Table at the Double

Find the 2x table by doubling each number. Find the 4x table by doubling the 2x table. Find the 8 times table by doubling the 4x table. Can you complete the whole sheet?

Number	x2	x4	x8
2	4	8	16
3	6	12	24
4	8	16	32
5	10	20	40
6	12	24	48
7	14	28	56
8	16	32	64
9	18	36	72
10	20	40	80
11	22	44	88
12	24	48	96
15	30	60	120
20	40	80	160
50	100	200	400
100	200	400	800

Multiplication Triangles Sheet 1

Fill in the blanks in these multiplication triangles.

①

80

÷

8

x

10

③

②

32

÷

4

x

8

⑤

④

6

÷

3

x

2

⑥

⑦

20

÷

4

x

5

⑨

⑩

96

÷

8

x

12

⑫

⑧

16

÷

4

x

4

⑪

⑬

24

÷

8

x

3

⑭

⑮

16

÷

4

x

2

⑯

⑰

24

÷

8

x

3

⑱

⑲

3

÷

3

x

1

⑳

㉑

88

÷

8

x

11

㉓

㉒

28

÷

4

x

7

㉔

㉕

12

÷

4

x

3

㉖

Multiplication Triangles Sheet 2

Fill in the blanks in these multiplication triangles.

13

24

8

3

14

36

4

9

15

15

3

5

16

21

3

7

17

72

8

9

18

40

8

5

19

20

4

5

20

24

4

6

21

36

3

12

22

12

3

4

23

64

8

8

24

56

8

7

Mental Multiplication

Try using these mental calculation strategies to see how many of these calculations you can perform mentally.

x4

Double the number and then double it again.
e.g. $13 \times 4 = 52$
($13 \times 2 = 26$,
 $26 \times 2 = 52$)

x5

Double the number by 10 and then half it.
e.g. $14 \times 5 = 70$
($14 \times 10 = 140$,
 $140 \div 2 = 70$)

x8

Double the number, double it again and then double it a third time.
e.g. $13 \times 8 = 104$
($13 \times 2 = 26$, $26 \times 2 = 52$,
 $52 \times 2 = 104$)

x9

Multiply the number by 10 and then subtract the number.
e.g. $15 \times 9 = 135$
($15 \times 10 = 150$,
 $150 - 15 = 135$)

x11

Multiply the number by 10 and then add the number.
e.g. $7 \times 11 = 77$
($7 \times 10 = 70$,
 $7 + 7 = 77$)

x15

Multiply the number by 10 and then add half of the total.
e.g. $12 \times 15 = 180$
($12 \times 10 = 120$,
 $120 \div 2 = 60$, $60 + 120 = 180$)

- 1

$14 \times 4 = 56$
- 2

$13 \times 5 = 65$
- 3

$6 \times 8 = 48$
- 4

$8 \times 9 = 72$
- 5

$9 \times 11 = 99$
- 6

$6 \times 15 = 90$
- 7

$15 \times 4 = 60$
- 8

$9 \times 5 = 45$
- 9

$12 \times 8 = 96$
- 10

$13 \times 9 = 117$
- 11

$10 \times 11 = 110$
- 12

$12 \times 15 = 45$
- 13

$15 \times 4 = 60$
- 14

$20 \times 5 = 100$
- 15

$5 \times 8 = 40$
- 16

$12 \times 9 = 108$
- 17

$13 \times 11 = 143$
- 18

$8 \times 15 = 120$
- 19

$4 \times 8 = 32$
- 20

$9 \times 15 = 135$
- 21

$11 \times 15 = 165$
- 22

$14 \times 8 = 112$

Multiplying 2-digit Numbers by 1-digit Numbers
Using the Grid Method

New Bus Stop Method Formal Division
of 2-digit Numbers

LO: I can use a formal method of division.

①

x	10	3
9	90	27

②

x	70	1
5	350	5

③

x	50	6
5	250	30

④

x	20	3
3	60	9

⑤

x	80	9
9	720	81

⑥

x	60	3
7	420	21

⑦

x	70	5
7	490	35

⑧

x	10	3
5	50	15

⑨

x	20	8
9	180	72

⑩

x	50	3
8	400	24

① $69 \div 3 = 23$

⑩ $80 \div 4 = 20$

② $88 \div 4 = 22$

⑪ $95 \div 5 = 19$

③ $90 \div 5 = 18$

⑫ $92 \div 4 = 23$

④ $76 \div 4 = 19$

⑬ $46 \div 2 = 23$

⑤ $72 \div 3 = 24$

⑭ $78 \div 6 = 13$

⑥ $70 \div 5 = 14$

⑮ $92 \div 4 = 23$

⑦ $24 \div 2 = 12$

⑯ $84 \div 4 = 21$

⑧ $56 \div 4 = 14$

⑰ $72 \div 3 = 24$

⑨ $36 \div 3 = 12$

⑱ $70 \div 7 = 10$

⑩ $65 \div 5 = 13$

⑲ $88 \div 4 = 22$

⑪ $96 \div 4 = 24$

⑳ $80 \div 5 = 16$

⑫ $90 \div 6 = 15$

㉑ $98 \div 7 = 14$

⑬ $96 \div 8 = 12$

㉒ $66 \div 3 = 22$

⑭ $96 \div 6 = 16$

㉓ $84 \div 4 = 21$

⑮ $88 \div 8 = 11$

㉔ $91 \div 7 = 13$

Use the inverse operation to work backwards and find the original number.

① $8 \div 2 = 4$ ⑨ $18 \div 3 = 6$ ⑰ $48 \div 6 = 8$

② $9 \div 3 = 3$ ⑩ $18 \div 6 = 3$ ⑱ $54 \div 6 = 9$

③ $12 \div 4 = 3$ ⑪ $28 \div 7 = 4$ ⑲ $96 \div 8 = 12$

④ $12 \div 3 = 4$ ⑫ $32 \div 8 = 4$ ⑳ $88 \div 8 = 11$

⑤ $18 \div 3 = 6$ ⑬ $42 \div 3 = 14$ ㉑ $88 \div 4 = 22$

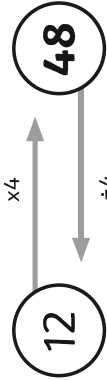
⑥ $18 \div 6 = 3$ ⑭ $32 \div 4 = 8$ ㉒ $64 \div 8 = 8$

⑦ $36 \div 3 = 12$ ⑮ $52 \div 4 = 13$ ㉓ $91 \div 7 = 13$

⑧ $48 \div 4 = 12$ ⑯ $70 \div 5 = 14$ ㉔ $108 \div 9 = 12$

Example:

Samiya is thinking of a number. She multiplies it by 4 and her new number is 48. What number was she first thinking of?

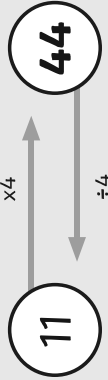


Questions:

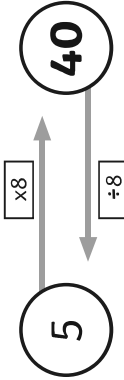
① Nat is thinking of a number. He multiplies it by 3 and his new number is 27. What number was he first thinking of?



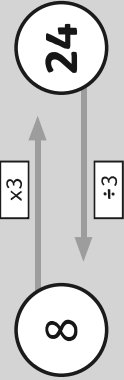
② Shahid is thinking of a number. He divides it by 4 and his new number is 11. What number was he first thinking of?



③ Esme is thinking of a number. She divides it by 8 and her new number is 5. What number was she first thinking of?



④ Taylor is thinking of a number. He multiplies it by 3 and his new number is 24. What number was he first thinking of?



⑤ Levi is thinking of a number. He multiplies it by 8 and his answer is 32. What number was he first thinking of?

⑥ Vivi is thinking of a number. She multiplies it by 3 and her new number is 12. What number was she first thinking of?

4

36

Deriving Related Multiplication Facts From Known Multiplication Tables

Complete the times tables question on the small lorries then use the answers to complete the associated facts on the big lorries!

1

3 x 4 = 12

2

3 x 6 = 18

3

3 x 7 = 21

4

4 x 4 = 16

5

4 x 7 = 28

6

3 x 8 = 24

7

4 x 9 = 36

8

8 x 5 = 40

9

8 x 9 = 72

10

8 x 6 = 48

3 x 40 = 120

4 x 30 = 120

4 x 3 = 12

3 x 60 = 180

6 x 30 = 180

6 x 3 = 18

3 x 70 = 210

7 x 30 = 210

7 x 3 = 21

4 x 40 = 160

40 x 4 = 160

4 x 4 = 16

40 x 7 = 280

7 x 40 = 280

7 x 4 = 28

3 x 80 = 240

8 x 30 = 240

8 x 3 = 34

4 x 90 = 360

9 x 40 = 360

9 x 4 = 36

8 x 50 = 400

5 x 80 = 400

5 x 8 = 40

8 x 90 = 720

9 x 80 = 720

9 x 8 = 72

8 x 60 = 480

6 x 80 = 480

6 x 8 = 48

Multiplication Missing Numbers

1

7

x 5

= 35

2

4

x

= 16

3

7

x 8

= 56

4

3

x 6

= 18

5

5

x 8

= 40

6

1

x 8

= 8

7

7

x 4

= 28

8

8

x 4

= 32

9

7

x 4

= 28

10

2

x 11

= 22

11

3

x 2

= 6

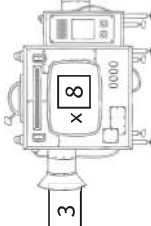
12

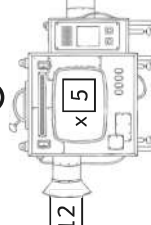
8

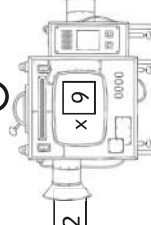
x 9

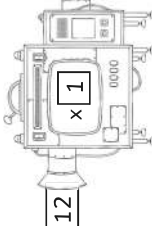
= 72

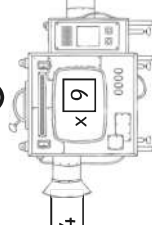
Multiplication Missing Numbers

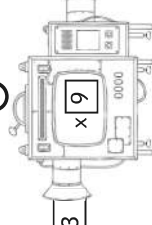
13  $3 \times 8 = 24$

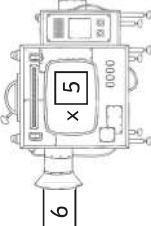
14  $12 \times 5 = 60$

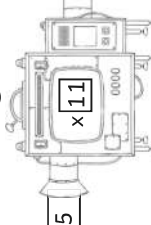
15  $2 \times 9 = 18$

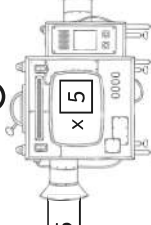
16  $12 \times 1 = 12$

17  $4 \times 9 = 36$

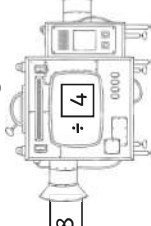
18  $3 \times 9 = 27$

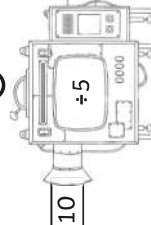
19  $6 \times 5 = 30$

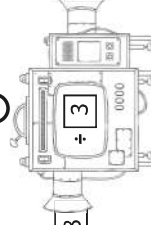
20  $5 \times 11 = 55$

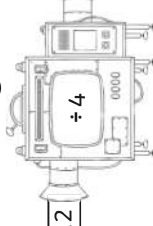
21  $5 \times 5 = 25$

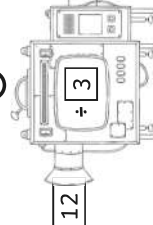
Division Missing Numbers

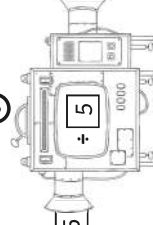
1  $8 \div 4 = 2$

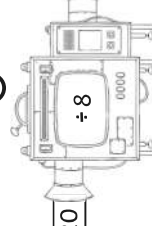
2  $10 \div 5 = 2$

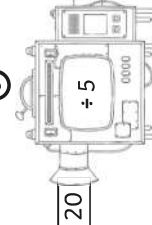
3  $18 \div 3 = 6$

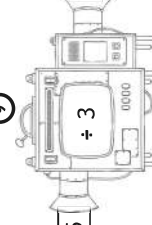
4  $12 \div 4 = 3$

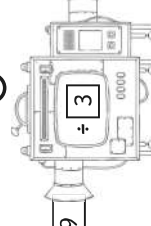
5  $12 \div 3 = 4$

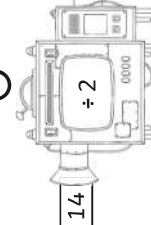
6  $15 \div 5 = 3$

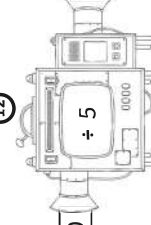
7  $20 \div 8 = 3$

8  $20 \div 5 = 4$

9  $15 \div 3 = 5$

10  $9 \div 3 = 3$

11  $14 \div 2 = 7$

12  $20 \div 5 = 4$

Division Missing Numbers

Scaling Problems

27

÷ 3

18

= 9

13

28

÷ 4

7

= 7

15

48

÷ 4

40

= 12

16

22

÷ 2

11

= 11

18

30

÷ 2

33

= 15

19

21

÷ 3

7

= 7

21

1 There are three biscuits in a packet. How many are there in seven packets?



Answer: 21

2 There are six stickers in a pack, how many packs do you need to buy to have 30 stickers?



Answer: 5

3 I have eight 5p coins in my money box. How much money do I have?



Answer: 40p

4 Joe builds a tower which is five bricks tall. Gina builds one four times as high. How many bricks does Gina use?



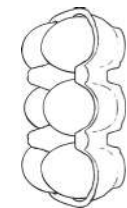
Answer: 20

Scaling Problems

Colour the Division Equation

Can you colour all the lines of three number squares that make a division equation? The line can be in any order but squares must be beside eachother in a column or in a row. Squares can be part of more than one equation. The example is $15 \div 3 = 5$ is shown below.

5 There are six eggs in a box - how man boxes are needed to make 48 eggs?



Answer: 8

6 Danyal has a 5p coin, a 2p coin and a 1p coin. Dylan has three times as much. How much does Dylan have?



Answer: 24p

7 Lisa has four cubes. Ned has double the number of cubes Lisa has. Mina has double the number of cubes that Ned has. How many cubes does everyone have?



Lisa: 4

Ned: 8

Mina: 16

8 A lizard is four centimetres long. A snake is nine times as long. How long is the snake?



Answer: 36m

1

15	6	8	60	5	12	1	12
5	1	5	7	16	4	23	12
3	21	4	9	7	3	1	1
8	3	20	10	2	17	16	1
4	1	1	5	3	16	2	8
32	18	9	2	2	4	7	2
25	3	15	3	4	4	4	16
18	6	1	6	9	13	9	14

2

88	10	31	1	41	21	6	27
8	25	23	4	4	7	9	9
11	1	11	9	21	3	9	3
3	15	5	2	10	12	14	24
33	3	55	3	4	4	16	8
4	44	11	2	40	8	5	15
7	8	13	2	5	2	10	20
28	4	7	8	8	4	2	2

3

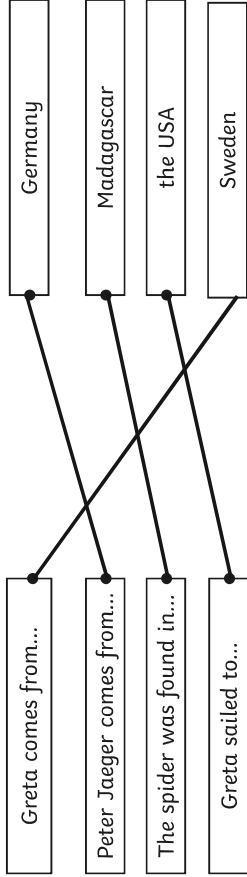
24	12	2	1	3	7	14	35
21	17	4	9	8	10	2	5
19	20	8	4	32	2	7	7
6	10	2	20	11	5	5	25
5	5	4	5	15	3	1	3
4	2	3	6	2	36	5	2
4	18	9	10	13	12	2	6
16	16	3	27	9	14	12	15

4

14	18	20	2	10	2	15	6
7	17	4	9	8	4	32	23
2	10	5	22	80	14	8	16
11	9	3	9	28	7	4	10
7	90	15	13	8	35	19	24
25	4	2	15	3	5	6	30
21	12	4	5	12	20	20	10
48	6	8	12	4	4	16	3

Answers

1. Draw a line to match the country to the information in the story.



2. Fill in the gap to the complete this sentence from the story.

It's the **400th** time he's found a new type of spider.

3. 'Her actions inspired Peter Jaeger.'

Tick the word that is closest in meaning to 'inspired'.

- ☐ annoyed
- ☒ **impressed**
- ☐ surprised
- ☐ saddened

4. Why do you think scientists name animals after famous people? Explain your answer.

Accept any answer that explains that scientists could name an animal after a well-known character or person to show respect, e.g. I think scientists name animals after famous people because they respect that person.

5. Do you think Greta was right to miss school to protest? Explain why you think this.

Accept any reasonable answer where the student gives their opinion followed by an explanation, e.g. I don't think she should have missed school because school is important for your learning.

6. Write a summary of the story in 20 words or fewer.

Accept any reasonable summary that is 20 words or fewer in length, e.g. A species of spider has been found and it has been named after Greta Thunberg.

Answers

1. How does a queen bee let other bees know she is ready to hatch?

They 'quack'

2. In the paragraph beginning "It used to be believed..." which word means 'for the attention of'?

aimed

3. Tick the boxes to show if each statement is true or false.

	True	False
All bees can 'toot' and 'quack' as well as buzz.		✓
Queen bees 'toot' before hatching.		✓
If two queen bees emerge at the same time, they work together to build a stronger hive.		✓
The researchers hope their findings will help beekeepers.	✓	

4. Which of these alternative headlines best summarises the story?

- ☐ Pollinators under Threat from Queen Bees
- ☐ Honeybees Play Instruments
- ☒ **Queen Bees Talk to Their Workers**
- ☐ Bees Communicate with Other Species

5. Using information from the article, fill in the gaps to complete the following sentences.

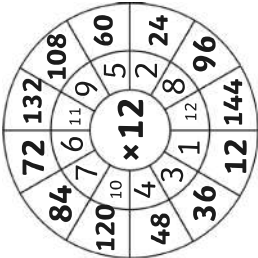
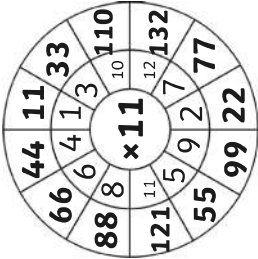
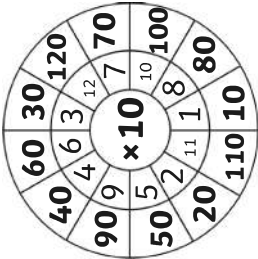
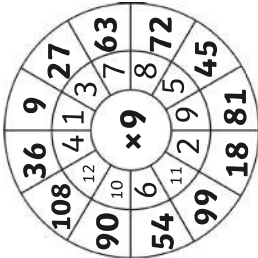
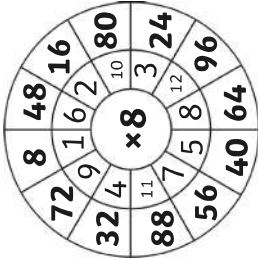
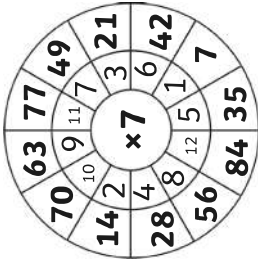
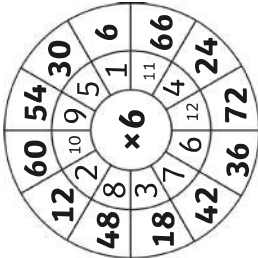
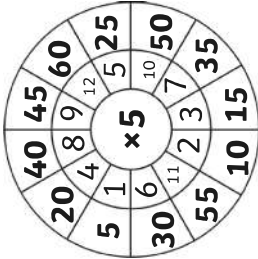
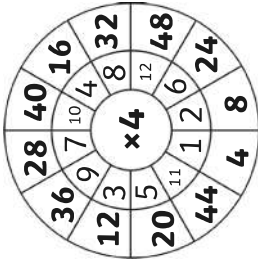
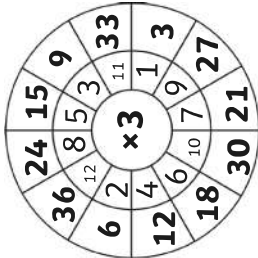
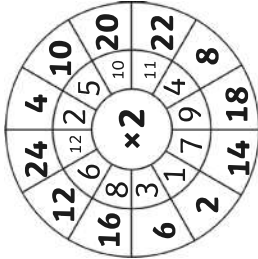
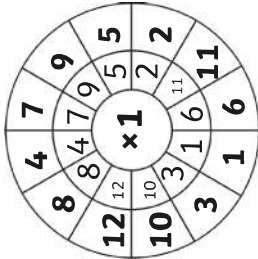
Scientists think **queen bees** 'quack' to tell worker bees that they are ready to hatch. They then 'toot' to tell the **worker bees** to keep the other queens sealed up and prepare to **swarm/leave**.

6. How have scientists' thoughts about queen bees 'tooting' and 'quacking' changed?

Accept an answer which references the sounds the queen bees make being for the workers rather than aimed at other queen bees or as signs of aggression, e.g. They used to think the queen bees were talking to each other; now, they think the queen bees are talking to the worker bees.

Multiplication Wheels

Multiply the numbers by the middle number.



Multiplying Three Numbers

1. $2 \times 1 \times 2 =$	4	$2. 3 \times 2 \times 3 =$	18
3. $3 \times 0 \times 3 =$	0	$4. 4 \times 3 \times 2 =$	24
5. $4 \times 3 \times 4 =$	48	$6. 5 \times 4 \times 5 =$	100
7. $2 \times 8 \times 2 =$	32	$8. 2 \times 7 \times 4 =$	56
9. $5 \times 2 \times 4 =$	40	$10. 1 \times 3 \times 9 =$	27
11. $2 \times 4 \times 8 =$	64	$12. 2 \times 3 \times 9 =$	54
13. $9 \times 2 \times 5 =$	90	$14. 2 \times 2 \times 9 =$	36
15. $4 \times 4 \times 4 =$	64	$16. 3 \times 3 \times 3 =$	27
17. $6 \times 2 \times 6 =$	72	$18. 7 \times 1 \times 2 =$	14
19. $4 \times 2 \times 8 =$	64	$20. 10 \times 2 \times 3 =$	60

Multiplying by 1 and 0 and Dividing by 1

Question	Answer	Question	Answer										
A.													
1	12	10	31										
2	82	11	0										
3	0	12	0										
4	25	13	50										
5	342	14	50										
6	212	15	3983										
7	0	16	26										
8	1	17	1										
9	0	18	0										
B.													
1	72 ÷ 1 = 72												
2	79 x 1 = 79												
3	65 x 0 = 0												
C.													
	<table><tr><td>Beginning Number</td><td>÷1</td><td>x1</td><td>x0</td><td>÷1</td><td>Ending Number</td></tr><tr><td>32</td><td>32</td><td>32</td><td>0</td><td>0</td><td>0</td></tr></table>	Beginning Number	÷1	x1	x0	÷1	Ending Number	32	32	32	0	0	0
Beginning Number	÷1	x1	x0	÷1	Ending Number								
32	32	32	0	0	0								
	<table><tr><td>Beginning Number</td><td>÷1</td><td>x1</td><td>x1</td><td>x0</td><td>Ending Number</td></tr><tr><td>1</td><td>1</td><td>1</td><td>1</td><td>0</td><td>0</td></tr></table>	Beginning Number	÷1	x1	x1	x0	Ending Number	1	1	1	1	0	0
Beginning Number	÷1	x1	x1	x0	Ending Number								
1	1	1	1	0	0								
	<table><tr><td>Beginning Number</td><td>x1</td><td>÷1</td><td>x1</td><td>÷1</td><td>Ending Number</td></tr><tr><td>10 000</td><td>10 000</td><td>10 000</td><td>10 000</td><td>10 000</td><td>10 000</td></tr></table>	Beginning Number	x1	÷1	x1	÷1	Ending Number	10 000	10 000	10 000	10 000	10 000	10 000
Beginning Number	x1	÷1	x1	÷1	Ending Number								
10 000	10 000	10 000	10 000	10 000	10 000								

Multiplying Mentally Using Known Facts

6 × 2 = 12

6 × 5 = 30

4 × 6 = 24

8 × 4 = 32

7 × 9 = 63

12 × 10 = 120

4 × 11 = 44

3 × 8 = 24

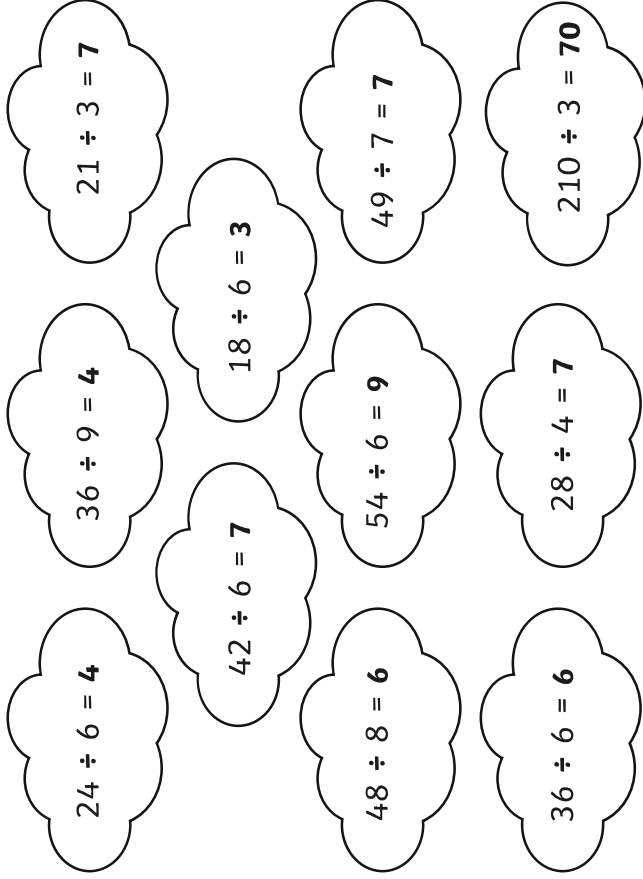
3 × 4 = 12

8 × 7 = 56

3 × 8 = 24

6 × 20 = 120	40 × 11 = 440	6 × 50 = 300	40 × 6 = 240	3 × 80 = 240
80 × 4 = 320	7 × 90 = 630	120 × 10 = 1200	3 × 40 = 120	80 × 7 = 560
600 × 2 = 1200	4 × 1100 = 4400	600 × 5 = 3000	4 × 600 = 2400	300 × 8 = 2400
8 × 400 = 3200	700 × 9 = 6300	12 × 1000 = 12000	300 × 4 = 1200	8 × 700 = 5600
60 × 20 = 1200	40 × 110 = 4400	60 × 50 = 3000	40 × 60 = 2400	30 × 80 = 2400
80 × 40 = 3200	70 × 90 = 6300	120 × 100 = 12000	30 × 40 = 1200	80 × 70 = 5600

Dividing Mentally Using Known Facts



The Commutative Law of Multiplication

In most cases it is better to multiply the larger by the smaller so $17 \times 4 = 68$; however children may justify why they keep the 5 at the beginning of the calculation e.g. 5×27 because they know that $5 \times 20 = 100$.

$17 \times 4 = 68$	$8 \times 21 = 168$	$28 \times 8 = 224$	$21 \times 5 = 105$
$3 \times 24 = 72$	$3 \times 18 = 54$	$7 \times 17 = 119$	$8 \times 26 = 208$
$5 \times 17 = 85$	$28 \times 9 = 252$	$15 \times 8 = 120$	$9 \times 24 = 216$
$29 \times 6 = 174$	$2 \times 15 = 30$	$5 \times 27 = 135$	$7 \times 29 = 203$
$4 \times 18 = 72$	$12 \times 4 = 48$	$3 \times 24 = 72$	$27 \times 6 = 162$
$7 \times 11 = 77$	$29 \times 5 = 145$	$17 \times 3 = 51$	$5 \times 17 = 85$
$19 \times 3 = 57$	$7 \times 27 = 189$	$4 \times 14 = 56$	
$7 \times 30 = 210$	$4 \times 29 = 116$	$6 \times 24 = 144$	

The Commutative Law of Multiplication

Question	Answer
1	$2 \times 5 \times 12 = 10 \times 12 = 120$
2	$13 \times 2 \times 2 = 26 \times 2 = 52$
3	$5 \times 4 \times 10 = 20 \times 10 = 200$
4	$5 \times 2 \times 5 = 10 \times 5 = 50$
5	$5 \times 5 \times 4 = 25 \times 4 = 100$
6	$5 \times 12 \times 10 = 60 \times 10 = 600$
7	$5 \times 2 \times 14 = 10 \times 14 = 140$
8	$0 \times 13 \times 7 = 0 \times 7 = 0$
9	$2 \times 2 \times 2 \times 11 = 8 \times 11 = 88$
10	$10 \times 10 \times 136 = 100 \times 136 = 13\,600$
11	$2 \times 5 \times 3 \times 4 \times 1 = 10 \times 3 \times 4 \times 1 = 10 \times 12 \times 1 = 120$

Multiplying Two-Digit Numbers by One-Digit Numbers

1. $\begin{array}{r} 24 \\ \times 4 \\ \hline 96 \end{array}$	2. $\begin{array}{r} 22 \\ \times 5 \\ \hline 110 \end{array}$	3. $\begin{array}{r} 18 \\ \times 5 \\ \hline 90 \end{array}$	4. $\begin{array}{r} 26 \\ \times 3 \\ \hline 78 \end{array}$
5. $\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$	6. $\begin{array}{r} 48 \\ \times 2 \\ \hline 96 \end{array}$	7. $\begin{array}{r} 41 \\ \times 9 \\ \hline 369 \end{array}$	8. $\begin{array}{r} 31 \\ \times 7 \\ \hline 217 \end{array}$
9. $\begin{array}{r} 44 \\ \times 7 \\ \hline 308 \end{array}$	10. $\begin{array}{r} 32 \\ \times 7 \\ \hline 224 \end{array}$	11. $\begin{array}{r} 62 \\ \times 3 \\ \hline 186 \end{array}$	12. $\begin{array}{r} 66 \\ \times 4 \\ \hline 264 \end{array}$
13. $\begin{array}{r} 82 \\ \times 4 \\ \hline 328 \end{array}$	14. $\begin{array}{r} 87 \\ \times 8 \\ \hline 696 \end{array}$	15. $\begin{array}{r} 94 \\ \times 8 \\ \hline 752 \end{array}$	16. $\begin{array}{r} 53 \\ \times 8 \\ \hline 424 \end{array}$
17. $\begin{array}{r} 85 \\ \times 4 \\ \hline 340 \end{array}$	18. $\begin{array}{r} 75 \\ \times 3 \\ \hline 225 \end{array}$	19. $\begin{array}{r} 68 \\ \times 6 \\ \hline 408 \end{array}$	20. $\begin{array}{r} 78 \\ \times 7 \\ \hline 546 \end{array}$

Three Digit × One Digit Multiplication

Question	Answer
1	501
2	411
3	1044
4	957
5	3145
6	2502
7	1170
8	5553
9	972

Missing Numbers 2-Digit × 1-Digit Multiplication

Question	Answer
1	6, 4
2	1
3	1, 6
4	4, 5
5	0
6	9, 5
7	2
8	7
9	5, 4
10	1, 3
11	1
12	6
13	2
14	1
15	9
16	1, 4
17	8, 4
18	5
19	2
20	9, 4

Question	Answer
21	2
22	9, 3
23	4
24	1
25	5, 2
26	1, 6
27	3, 5
28	7
29	8
30	8, 5
31	4
32	5, 2
33	9
34	3
35	7, 5
36	4, 2
37	2
38	5
39	2, 6
40	4

Multiplying 3-Digit by 1-Digit Numbers

$$\begin{array}{r} 1. \quad 214 \\ \times \quad 4 \\ \hline 856 \end{array}$$

$$\begin{array}{r} 2. \quad 301 \\ \times \quad 4 \\ \hline 1204 \end{array}$$

$$\begin{array}{r} 3. \quad 825 \\ \times \quad 6 \\ \hline 4950 \end{array}$$

$$\begin{array}{r} 4. \quad 656 \\ \times \quad 5 \\ \hline 3280 \end{array}$$

$$\begin{array}{r} 5. \quad 540 \\ \times \quad 3 \\ \hline 1620 \end{array}$$

$$\begin{array}{r} 6. \quad 978 \\ \times \quad 5 \\ \hline 4890 \end{array}$$

$$\begin{array}{r} 7. \quad 216 \\ \times \quad 2 \\ \hline 432 \end{array}$$

$$\begin{array}{r} 8. \quad 209 \\ \times \quad 4 \\ \hline 836 \end{array}$$

$$\begin{array}{r} 9. \quad 966 \\ \times \quad 4 \\ \hline 3864 \end{array}$$

$$\begin{array}{r} 10. \quad 345 \\ \times \quad 3 \\ \hline 1035 \end{array}$$

$$\begin{array}{r} 11. \quad 146 \\ \times \quad 4 \\ \hline 584 \end{array}$$

$$\begin{array}{r} 12. \quad 938 \\ \times \quad 2 \\ \hline 1876 \end{array}$$

$$\begin{array}{r} 13. \quad 676 \\ \times \quad 5 \\ \hline 3380 \end{array}$$

$$\begin{array}{r} 14. \quad 278 \\ \times \quad 3 \\ \hline 834 \end{array}$$

$$\begin{array}{r} 15. \quad 159 \\ \times \quad 3 \\ \hline 477 \end{array}$$

$$\begin{array}{r} 16. \quad 846 \\ \times \quad 4 \\ \hline 3384 \end{array}$$

$$\begin{array}{r} 17. \quad 536 \\ \times \quad 4 \\ \hline 2144 \end{array}$$

$$\begin{array}{r} 18. \quad 365 \\ \times \quad 2 \\ \hline 730 \end{array}$$

$$\begin{array}{r} 19. \quad 271 \\ \times \quad 5 \\ \hline 1355 \end{array}$$

$$\begin{array}{r} 20. \quad 834 \\ \times \quad 4 \\ \hline 3336 \end{array}$$

$$\begin{array}{r} 21. \quad 352 \\ \times \quad 3 \\ \hline 1056 \end{array}$$

$$\begin{array}{r} 22. \quad 742 \\ \times \quad 3 \\ \hline 2226 \end{array}$$

$$\begin{array}{r} 23. \quad 185 \\ \times \quad 4 \\ \hline 740 \end{array}$$

$$\begin{array}{r} 24. \quad 400 \\ \times \quad 3 \\ \hline 1200 \end{array}$$

$$\begin{array}{r} 25. \quad 169 \\ \times \quad 2 \\ \hline 338 \end{array}$$

$$\begin{array}{r} 26. \quad 576 \\ \times \quad 6 \\ \hline 3456 \end{array}$$

$$\begin{array}{r} 27. \quad 136 \\ \times \quad 5 \\ \hline 680 \end{array}$$

$$\begin{array}{r} 28. \quad 482 \\ \times \quad 3 \\ \hline 1446 \end{array}$$

$$\begin{array}{r} 29. \quad 506 \\ \times \quad 3 \\ \hline 1518 \end{array}$$

$$\begin{array}{r} 30. \quad 411 \\ \times \quad 5 \\ \hline 2055 \end{array}$$

$$\begin{array}{r} 31. \quad 749 \\ \times \quad 6 \\ \hline 4494 \end{array}$$

$$\begin{array}{r} 32. \quad 146 \\ \times \quad 2 \\ \hline 292 \end{array}$$

$$\begin{array}{r} 33. \quad 822 \\ \times \quad 2 \\ \hline 1644 \end{array}$$

$$\begin{array}{r} 34. \quad 673 \\ \times \quad 2 \\ \hline 1346 \end{array}$$

$$\begin{array}{r} 35. \quad 907 \\ \times \quad 5 \\ \hline 4535 \end{array}$$

$$\begin{array}{r} 36. \quad 129 \\ \times \quad 2 \\ \hline 258 \end{array}$$

$$\begin{array}{r} 37. \quad 883 \\ \times \quad 2 \\ \hline 1766 \end{array}$$

$$\begin{array}{r} 38. \quad 861 \\ \times \quad 4 \\ \hline 3444 \end{array}$$

$$\begin{array}{r} 39. \quad 854 \\ \times \quad 6 \\ \hline 5124 \end{array}$$

$$\begin{array}{r} 40. \quad 645 \\ \times \quad 5 \\ \hline 3225 \end{array}$$

Correspondence Type Word Problems:

Question	Answer
1	72
2	25 possible combinations
3	7
4	20
5	Multiple possible answers: e.g. 50 cars and 25 bikes = $50 \times 4 + 25 \times 2 = 250$
6	$90 + 10 + 9 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1 = 145\text{cm}$
7	Multiple possible answers: e.g. Raju + Sunnah = 35 Triplets = 3 $35 \times 2 + 3 \times 3 = 79$
8	12 possible combinations

Problems Involving Scaling Worksheet

Question	Answer
1	£5.40
2	51cm
3	200g
4	48 squares
5	80 squares
6	£5.31
7	£68
8	100ml

