Year 4 Maths
11.05.20

LO: To be able to multiply a 2 digit number by a 1 digit number

This week we are switching to the new White Rose Scheme designed specifically for school closure. It is linked to the BBC bitesize and recaps work we have already done ready for back to school. You can watch the White Rose video or the BBC lesson which is on the IPlayer. You will need to watch the lesson from last Monday – week3 lesson1.

https://www.bbc.co.uk/iplayer/episode/p089prm5/bitesize-79-year-olds-week-3-1-multiplication-history-and-new-book-club

They have follow up tasks on the Bitesize website too if you want.

https://whiterosemaths.com/homelearning/year-4/

We are working 1 week behind so please select w/c 04/05 – Monday

Please complete the worksheet in your book.

Starter

Flashback 4

Year 4 | Week 1 | Day 1

1) What is 10 × 7?

2) Work out 90 ÷ 10

3) What is seven multiplied by one?

4) Find the perimeter of the rectangle.

White Rose Maths

Flashback 4

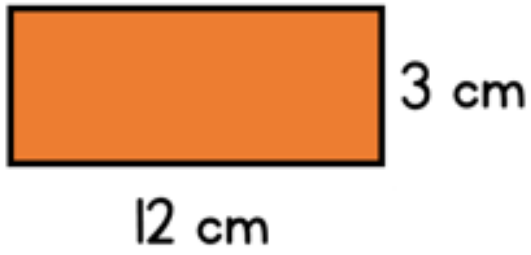
Year 4 | Week 1 | Day 1

1) What is 10 × 7? 70

2) Work out 90 ÷ 10 9

3) What is seven multiplied by one? 7

4) Find the perimeter of the rectangle. 30 cm



Multiply 2-digits by 1-digit

1 Brett uses a place value chart to work out 5 × 32

Hundreds	Tens	Ones
	10 10 10	1 1
	10 10 10	1 1
	10 10 10	1 1
	10 10 10	1 1
	10 10 10	1 1

100 10

Talk about Brett's method with a partner.

Complete the multiplication.

5 × 32 = ☐

Use Brett's method to work out 6 × 34

6 × 34 = ☐

2 Rosie works out 4 × 37 using a written method.

	H	T	O					
		3	7					
×			4					
	2	8			(7	x	4)	
1	2	0		(3	0	x	4)	
1	4	8						

Talk about Rosie's method with a partner.

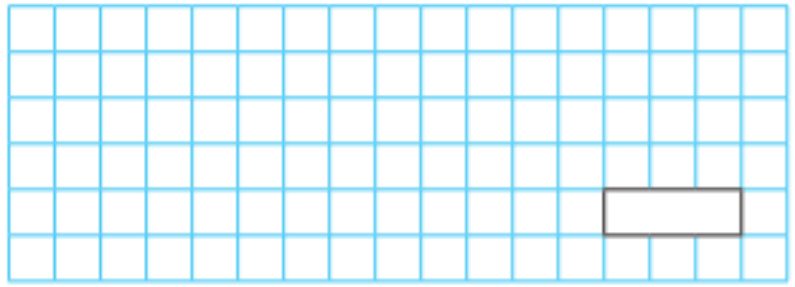
Use Rosie's method to work out 6 × 28

3 Dani uses a different written method to work out 8 × 42

	H	T	O	
		4	2	
×			8	
3	3	6		
	1			

Talk about Dani's method with a partner.

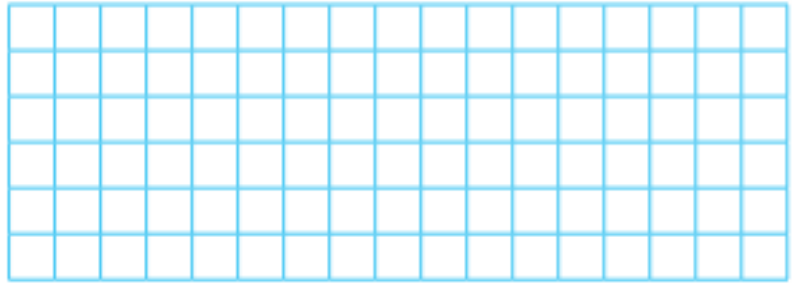
Use Dani's method to work out 3 × 27



4 Use a written method to complete the multiplications.

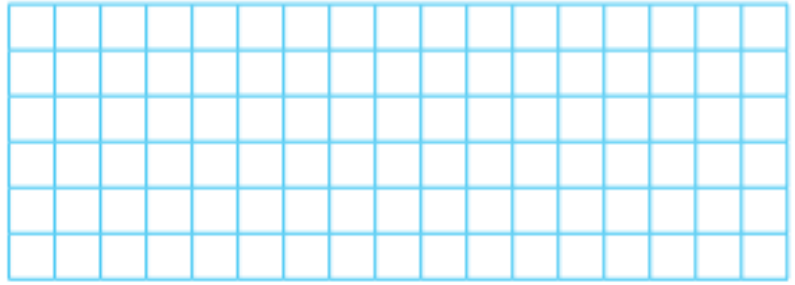
a) 38 × 6 = ☐

c) 45 × 9 = ☐



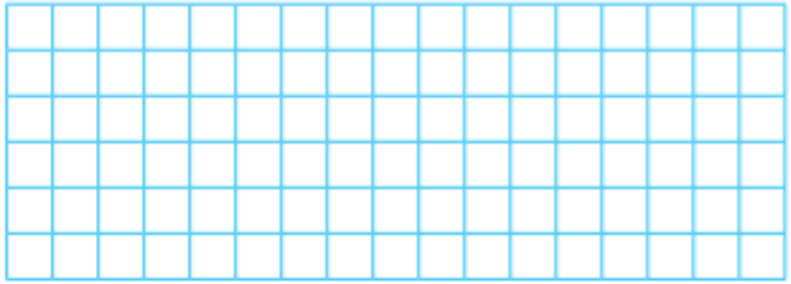
b) 71 × 3 = ☐

d) 52 × 5 = ☐



e) 29 × 8 = ☐

f) 17 × 4 = ☐



5 Class 4 is selling tickets for a play.

Tickets cost £5 per person.

56 tickets have been sold so far.

How much money has Class 4 collected?

☐

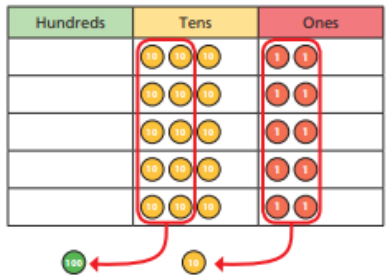
6 Rosie buys 8 bunches of flowers. Each bunch has 17 flowers.

How many flowers does she have altogether?

☐

Multiply 2-digits by 1-digit

1 Brett uses a place value chart to work out 5 × 32



Talk about Brett's method with a partner.

Complete the multiplication.

5 × 32 = 160

Use Brett's method to work out 6 × 34

6 × 34 = 204

2 Rosie works out 4 × 37 using a written method.

	H	T	O		
		3	7		
×			4		
		2	8		(7 x 4)
	1	2	0		(30 x 4)
	1	4	8		

Talk about Rosie's method with a partner.

Use Rosie's method to work out 6 × 28

28 × 6 = 48 + 120 = 168 (8 × 6), (20 × 6)

3 Dani uses a different written method to work out 8 × 42

	H	T	O
		4	2
×			8
	3	3	6
		1	

Talk about Dani's method with a partner.

Use Dani's method to work out 3 × 27

27 × 3 = 81 (2)

4 Use a written method to complete the multiplications.

a) 38 × 6 = 228

b) 71 × 3 = 213

c) 45 × 9 = 405

d) 52 × 5 = 260

e) 29 × 8 = 232

f) 17 × 4 = 68

5 Class 4 is selling tickets for a play.

Tickets cost £5 per person.

56 tickets have been sold so far.

How much money has Class 4 collected?

£280

6 Rosie buys 8 bunches of flowers. Each bunch has 17 flowers.

How many flowers does she have altogether?

136

Year 4 Maths
12.05.20

LO: To be able to multiply a 3 digit number by a 1 digit number

You can watch the White Rose video or the BBC lesson which is on the IPlayer. You will need to watch the lesson from last Tuesday – week3 lesson2. You should be able to follow the same link as Monday and select day 2. They have follow up tasks on the Bitesize website too if you want.

https://whiterosemaths.com/homelearning/year-4/

We are working 1 week behind so please select **w/c 04/05** – Tuesday

Please complete the worksheet in your book.

Starter

Flashback 4

Year 4 | Week 1 | Day 2

1) Work out 11 × 7

2) What is 63 ÷ 7?

3) What is nine multiplied by zero?

4) Find the perimeter of the square.

White Rose Maths

Flashback 4

Year 4 | Week 1 | Day 2

1) Work out 11 × 7 77

2) What is 63 ÷ 7? 9

3) What is nine multiplied by zero? 0

4) Find the perimeter of the square. 16 cm

White Rose Maths

Multiply 3-digits by 1-digit

1 Filip uses a place value chart to help him multiply a 3-digit number by a 1-digit number.

Hundreds	Tens	Ones
100	10 10	1 1 1 1
100	10 10	1 1 1 1
100	10 10	1 1 1 1

a) What multiplication is Filip working out?

☐ × ☐

b) What is the answer to Filip's multiplication? ☐

2 Use place value counters to complete the multiplications.

a) 3 × 213 = ☐

b) 4 × 216 = ☐

c) 5 × 106 = ☐

d) 6 × 106 = ☐

e) 4 × 209 = ☐

f) 317 × 3 = ☐

3 Complete the multiplication.

Use the place value chart to help you.

H	T	O
100 100	10	1 1 1 1 1
100 100	10	1 1 1 1 1
100 100	10	1 1 1 1 1

	H	T	O
	2	1	5
×			3

4 Complete the multiplications.

a)

	H	T	O
	2	1	7
×			4

b)

	H	T	O
	4	3	9
×			2

c)

	H	T	O
	1	0	8
×			6

d) 163 × 5

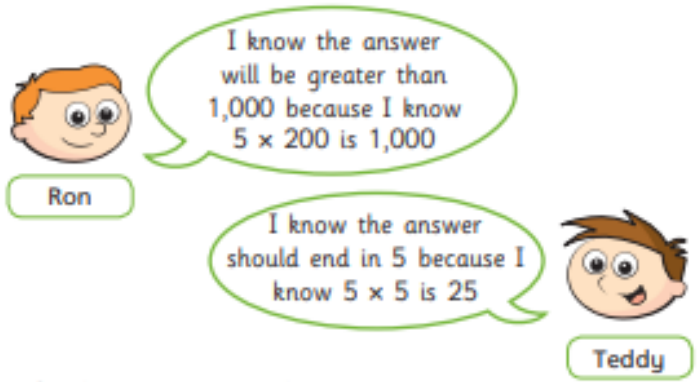
e) 3 × 240

f) 7 × 131

5 A lorry driver travels 156 km per day.

How many kilometres will the lorry driver have travelled after 3 days?

6 Ron and Teddy are working out 5 × 245



a) Who is correct? Circle your answer.

Ron **Teddy** **both** **neither**

b) Use a written method to work out 5 × 245

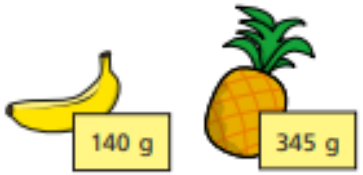
7 There are 7 year groups in a school.

There are 112 children in each year group.

How many children are there in the whole school?

8 A banana weighs 140 g

A pineapple weighs 345 g



Bag **A** contains 8 bananas and bag **B** contains 3 pineapples.

Which bag weighs more and by how much?

Show your working.

Bag _____ weighs ☐ g more than bag _____.

Multiply 3-digits by 1-digit

1 Filip uses a place value chart to help him multiply a 3-digit number by a 1-digit number.

Hundreds	Tens	Ones
100	10 10	1 1 1 1
100	10 10	1 1 1 1
100	10 10	1 1 1 1

a) What multiplication is Filip working out?

124 × 3

b) What is the answer to Filip's multiplication? 372

2 Use place value counters to complete the multiplications.

a) 3 × 213 = 639

b) 4 × 216 = 864

c) 5 × 106 = 530

d) 6 × 106 = 636

e) 4 × 209 = 836

f) 317 × 3 = 951

3 Complete the multiplication.

Use the place value chart to help you.

H	T	O
100 100	10	1 1 1 1 1
100 100	10	1 1 1 1 1
100 100	10	1 1 1 1 1

	H	T	O
	2	1	5
×			3
	6	4	5
		1	

4 Complete the multiplications.

a)

	H	T	O
	2	1	7
×			4
	8	6	8
		2	

c)

	H	T	O
	1	0	8
×			6
	6	4	8
		4	

b)

	H	T	O
	4	3	9
×			2
	8	7	8
		1	

d) 163 × 5

	H	T	O
	1	6	3
×			5
	8	1	5
	3	1	

e) 3 × 240

	H	T	O
	2	4	0
×			3
	7	2	0
	1		

f) 7 × 131

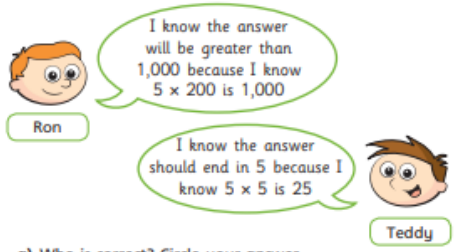
	H	T	O
	1	3	1
×			7
	9	1	7
	2		

5 A lorry driver travels 156 km per day.

How many kilometres will the lorry driver have travelled after 3 days?

468km

6 Ron and Teddy are working out 5 × 245



a) Who is correct? Circle your answer.

Ron Teddy **both** neither

b) Use a written method to work out 5 × 245

1,225

7 There are 7 year groups in a school.

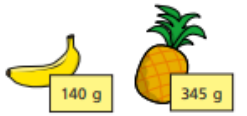
There are 112 children in each year group.

How many children are there in the whole school?

784

8 A banana weighs 140 g

A pineapple weighs 345 g



Bag **A** contains 8 bananas and bag **B** contains 3 pineapples.

Which bag weighs more and by how much?

Show your working.

Bag A weighs 85 g more than bag B.

Year 4 Maths
13.05.20

LO: To be able to divide a 2 digit number by a 1 digit number

You can watch the White Rose video or the BBC lesson which is on the IPlayer. You will need to watch the lesson from last Wednesday – week3 lesson3. You should be able to follow the same link as Monday and select day 3. They have follow up tasks on the Bitesize website too if you want.

https://whiterosemaths.com/homelearning/year-4/

We are working 1 week behind so please select **w/c 04/05** – Wednesday

Please complete the worksheet in your book.

Starter

Flashback 4

Year 4 | Week 1 | Day 3

1) What is 3×12?

2) Find $36 \div 6$

3) Six divided by six is equal to?

4) Find the sum of 3,482 and 1,563

White Rose Maths

Flashback 4

Year 4 | Week 1 | Day 3

1) What is 3×12? 36

2) Find $36 \div 6$ 6

3) Six divided by six is equal to? 1

4) Find the sum of 3,482 and 1,563 5,045

White Rose Maths

Divide 2-digits by 1-digit (2)

1 Whitney is working out 49 ÷ 4 using a place value chart.

Tens	Ones
10	1 1
10	1 1
10	1 1
10	1 1

1

a) Talk about Whitney's method with a partner.

b) Why is there one counter left over?

c) Complete the division.

49 ÷ 4 = ☐

d) Use place value counters to complete the divisions.

50 ÷ 4 = ☐ 51 ÷ 4 = ☐

What do you notice?

2 Complete the divisions.

a) 47 ÷ 3 = ☐

b) 26 ÷ 5 = ☐

c) 89 ÷ 4 = ☐

d) 32 ÷ 5 = ☐

e) 49 ÷ 6 = ☐

f) 47 ÷ 4 = ☐

g) 74 ÷ 3 = ☐

h) 81 ÷ 7 = ☐

3 Complete the divisions.

a) 36 ÷ 4 = ☐

37 ÷ 4 = ☐

38 ÷ 4 = ☐

39 ÷ 4 = ☐

40 ÷ 4 = ☐

b) 70 ÷ 5 = ☐

71 ÷ 5 = ☐

72 ÷ 5 = ☐

73 ÷ 5 = ☐

74 ÷ 5 = ☐

c) 45 ÷ 3 = ☐

46 ÷ 3 = ☐

47 ÷ 3 = ☐

48 ÷ 3 = ☐

49 ÷ 3 = ☐

d) 92 ÷ 4 = ☐

91 ÷ 4 = ☐

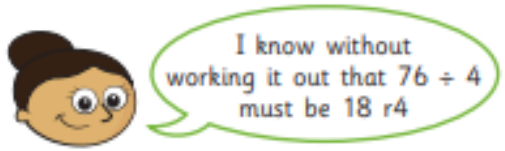
90 ÷ 4 = ☐

89 ÷ 4 = ☐

88 ÷ 4 = ☐

4 Dora has been working out some divisions.

$72 \div 4 = 18$
$73 \div 4 = 18$ r1
$74 \div 4 = 18$ r2
$75 \div 4 = 18$ r3



a) Why does Dora think this?

b) Explain why Dora is wrong.

5 Eggs come in boxes of 6

Annie has 75 eggs.

She wants to know how many boxes she can fill.

a) Complete the division to work it out.

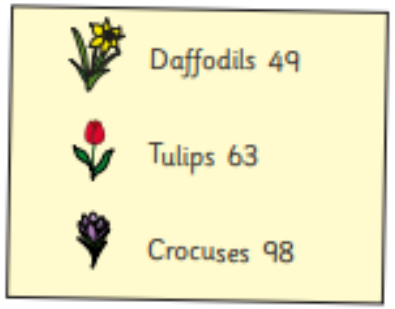
☐ ÷ ☐ = ☐ r ☐

b) What does the remainder represent?
Talk about it with a partner.

c) Complete the sentence.

Annie can fill ☐ boxes with ☐ eggs left over.

6 Jack has these bulbs.



Equal numbers of each bulb are put into 4 tubs.

How many of each bulb will be in each tub?

Daffodils ☐ Tulips ☐ Crocuses ☐

How many of each bulb will be left over?

Daffodils ☐ Tulips ☐ Crocuses ☐

How many tubs could Jack use so that there are no bulbs left over?

Divide 2-digits by 1-digit (2)

1 Whitney is working out 49 ÷ 4 using a place value chart.

Tens	Ones
10	1 1
10	1 1
10	1 1
10	1 1

1

a) Talk about Whitney's method with a partner.

b) Why is there one counter left over?

It is a remainder.

c) Complete the division.

49 ÷ 4 = 12 r 1

d) Use place value counters to complete the divisions.

50 ÷ 4 = 12 r 2 51 ÷ 4 = 12 r 3

What do you notice?

2 Complete the divisions.

a) 47 ÷ 3 = 15 r 2
b) 26 ÷ 5 = 5 r 1
c) 89 ÷ 4 = 22 r 1
d) 32 ÷ 5 = 6 r 2
e) 49 ÷ 6 = 8 r 1
f) 47 ÷ 4 = 11 r 3
g) 74 ÷ 3 = 24 r 2
h) 81 ÷ 7 = 11 r 4

3 Complete the divisions.

a) 36 ÷ 4 = 9
37 ÷ 4 = 9 r 1
38 ÷ 4 = 9 r 2
39 ÷ 4 = 9 r 3
40 ÷ 4 = 10

b) 70 ÷ 5 = 14
71 ÷ 5 = 14 r 1
72 ÷ 5 = 14 r 2
73 ÷ 5 = 14 r 3
74 ÷ 5 = 14 r 4

c) 45 ÷ 3 = 15
46 ÷ 3 = 15 r 1
47 ÷ 3 = 15 r 2
48 ÷ 3 = 16
49 ÷ 3 = 16 r 1

d) 92 ÷ 4 = 23
91 ÷ 4 = 22 r 3
90 ÷ 4 = 22 r 2
89 ÷ 4 = 22 r 1
88 ÷ 4 = 22

4 Dora has been working out some divisions.

72 ÷ 4 = 18
73 ÷ 4 = 18 r1
74 ÷ 4 = 18 r2
75 ÷ 4 = 18 r3

I know without working it out that 76 ÷ 4 must be 18 r4

a) Why does Dora think this?

She has spotted a pattern.

b) Explain why Dora is wrong.

You can't have a remainder of 4 when dividing by 4

5 Eggs come in boxes of 6

Annie has 75 eggs.

She wants to know how many boxes she can fill.

a) Complete the division to work it out.

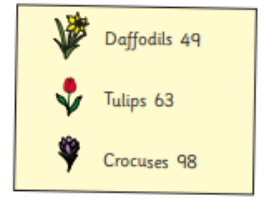
75 ÷ 6 = 12 r 3

b) What does the remainder represent?
Talk about it with a partner.

c) Complete the sentence.

Annie can fill 12 boxes with 3 eggs left over.

6 Jack has these bulbs.



Equal numbers of each bulb are put into 4 tubs.

How many of each bulb will be in each tub?

Daffodils 12 Tulips 15 Crocuses 24

How many of each bulb will be left over?

Daffodils 1 Tulips 3 Crocuses 2

How many tubs could Jack use so that there are no bulbs left over?

Year 4 Maths
14.05.20

LO: To be able to divide a 3 digit number by a 1 digit number

You can watch the White Rose video or the BBC lesson which is on the IPlayer. You will need to watch the lesson from last Thursday – week3 lesson4. You should be able to follow the same link as Monday and select day 4. They have follow up tasks on the Bitesize website too if you want.

https://whiterosemaths.com/homelearning/year-4/

We are working 1 week behind so please select **w/c 04/05** – Thursday

Please complete the worksheet in your book.

Starter

Flashback 4

Year 4 | Week 1 | Day 4

1) Work out $3 \times 3 \times 4$

2) What is nine multiplied by eight?

3) $12 \div 1$ is equal to?

4) Work out $3{,}924 - 1{,}451$

White Rose Maths

Flashback 4

1) Work out $3 \times 3 \times 4$ 36

2) What is nine multiplied by eight? 72

3) $12 \div 1$ is equal to? 12

4) Work out 3,924 − 1,451 2,473

Divide 3-digits by 1-digit

1 Jack is working out 844 ÷ 4 using a place value chart.

H	T	O
100 100	10	1
100 100	10	1
100 100	10	1
100 100	10	1

a) Talk about Jack's method with a partner.

b) Complete the division.

844 ÷ 4 = ☐

2 Use Jack's method to work out these divisions.

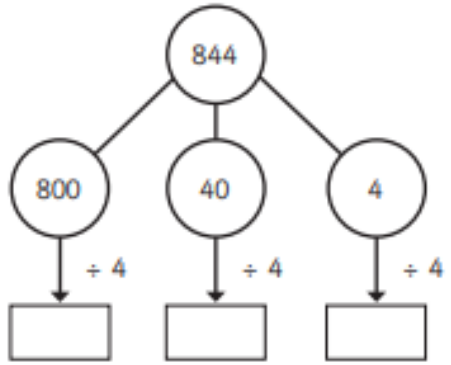
a) 525 ÷ 5 = ☐

b) 636 ÷ 6 = ☐

c) 840 ÷ 8 = ☐

d) 903 ÷ 3 = ☐

3 Eva is working out 844 ÷ 4 using a part-whole model.



Complete Eva's method.

844 ÷ 4 = ☐

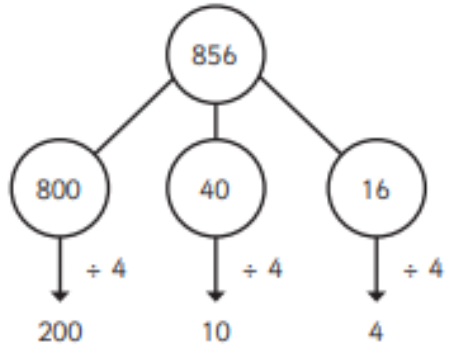
4 A ball of string is 848 cm long.

It is cut into 4 equal pieces.

What is the length of one piece of string?

☐

5 Whitney is using flexible partitioning to divide a 3-digit number.



Could Whitney have partitioned her number another way?

Use Whitney's method to work out these divisions.

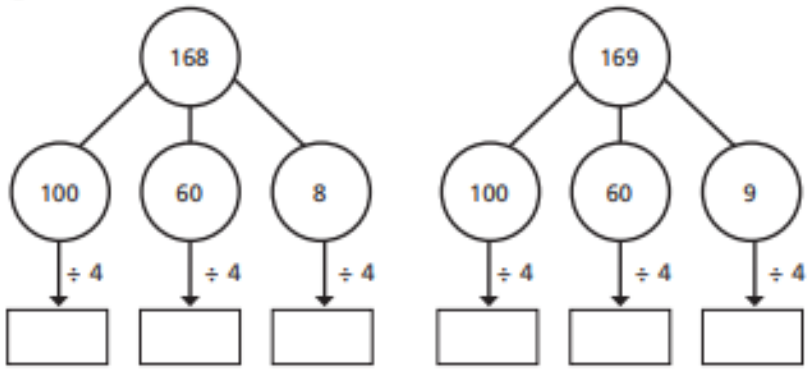
a) 585 ÷ 5 = ☐

b) 672 ÷ 6 = ☐

c) 648 ÷ 4 = ☐

d) 847 ÷ 7 = ☐

6 Complete the part-whole models and divisions.



168 ÷ 4 = ☐

169 ÷ 4 = ☐

What is the same and what is different about the calculations?

Talk about it with a partner.

7 Complete the divisions.

a) 258 ÷ 6 = ☐

b) 623 ÷ 5 = ☐

c) 864 ÷ 4 = ☐

d) 824 ÷ 3 = ☐

8 Eva has a piece of ribbon.

The ribbon measures 839 cm long.

How much ribbon would be left over if she cuts it into:

a) 4 equal pieces ☐

b) 6 equal pieces ☐

c) 8 equal pieces ☐

Can Eva cut the ribbon into equal pieces with no ribbon left over? ____

Explain your answer.

9 Use 15 counters and a place value chart.

a) Make a number that is divisible by 3

b) Make a number that has a remainder of 1 when divided by 3

c) Make a number that has a remainder of 2 when divided by 3

Create your own problem like this for a partner.

Divide 3-digits by 1-digit

1 Jack is working out 844 ÷ 4 using a place value chart.

H	T	O
100 100	10	1
100 100	10	1
100 100	10	1
100 100	10	1

a) Talk about Jack's method with a partner.

b) Complete the division.

844 ÷ 4 = 211

2 Use Jack's method to work out these divisions.

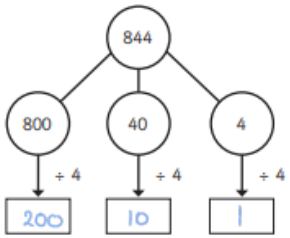
a) 525 ÷ 5 = 105

b) 636 ÷ 6 = 106

c) 840 ÷ 8 = 105

d) 903 ÷ 3 = 301

3 Eva is working out 844 ÷ 4 using a part-whole model.



Complete Eva's method.

844 ÷ 4 = 211

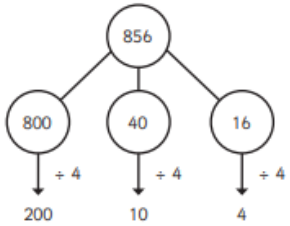
4 A ball of string is 848 cm long.

It is cut into 4 equal pieces.

What is the length of one piece of string?

212cm

5 Whitney is using flexible partitioning to divide a 3-digit number.



Could Whitney have partitioned her number another way?

Use Whitney's method to work out these divisions.

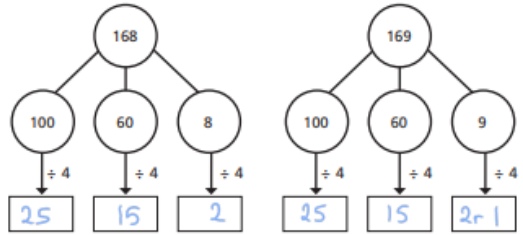
a) 585 ÷ 5 = 117

b) 672 ÷ 6 = 112

c) 648 ÷ 4 = 162

d) 847 ÷ 7 = 121

6 Complete the part-whole models and divisions.



168 ÷ 4 = 42

169 ÷ 4 = 42r 1

What is the same and what is different about the calculations?

Talk about it with a partner.

7 Complete the divisions.

a) 258 ÷ 6 = 43

b) 623 ÷ 5 = 124r 3

c) 864 ÷ 4 = 216

d) 824 ÷ 3 = 274r 2

8 Eva has a piece of ribbon.

The ribbon measures 839 cm long.

How much ribbon would be left over if she cuts it into:

a) 4 equal pieces

3 cm

b) 6 equal pieces

5 cm

c) 8 equal pieces

7 cm

Can Eva cut the ribbon into equal pieces with no ribbon left over?

No

Explain your answer.

9 Use 15 counters and a place value chart.

a) Make a number that is divisible by 3

b) Make a number that has a remainder of 1 when divided by 3

c) Make a number that has a remainder of 2 when divided by 3

Create your own problem like this for a partner.

Year 4 Maths
15.05.20

LO: To use my maths skills to solve challenges.

Today there is no White Rose video, below is a link to the BBC. Questions 1,2,3,4 and 5 are most suited to Year 4 but you are welcome to try some of others too if you wish.

https://www.bbc.co.uk/bitesize/articles/zkfdjhv

Challenge 1

This is half of Lee's strawberries.

How many strawberries does Lee have?

This is half of Lee's shape.

What could the whole shape look like?

Challenge 2

Tim buys a lolly and a chew.

The lolly costs 12p more than the chew.

The total cost of the two items is 82p.

How much does the lolly cost?

Challenge 3

Stickers come in packs of 5.

Max buys 12 packs.

He gave his three friends some stickers.

They each receive the same number.

He has 27 stickers left.

How many stickers did Max give each of his friends?

Challenge 4

Here are 3 containers.

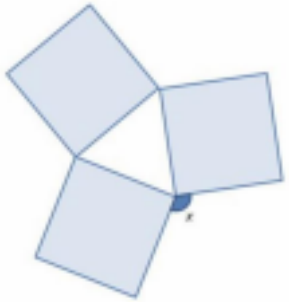
- The jug can hold 1500 mL
- The bucket can hold 2 litres.
- The barrel can hold 15 litres.

Aniso wants to fill the barrel with water.

Find 2 ways that Aniso can fill the barrel using the jug and bucket.

Challenge 5

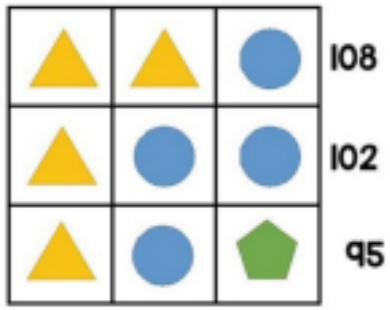
Three identical squares are arrange to make this pattern.



What is the size of the angle marked x?

Challenge 6

Here is a 3 x 3 grid with some shapes in.



Each shape represents a number.

The sum of each row is shown at the right of the table.

Find the value of each of the shapes.

Challenge 7

Megan puts 4 fractions in order, starting with the smallest.

$\frac{1}{2}$ $\frac{}{8}$ $\frac{7}{}$ $\frac{}{5}$

She has spilt some paint on some parts of the fractions.

What could the missing numbers be?

Challenge 8

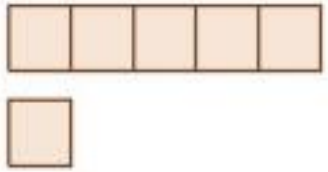
Connor has five times as much money as Jayden.

Connor gives some money to Jayden.

They now have £8.52 each.

How much did Connor have at the start?

Hint: The diagram below may help you.



Answers

Challenge 1 - 8 strawberries

Challenge 2 - 47p

Challenge 3 - 11 cards

Challenge 4 - 2 jugs and 6 buckets, or 6 jugs and 3 buckets

Challenge 5 - 120 degrees

Challenge 6 - Circle = 32, Triangle = 38 and Pentagon = 25

Challenge 7 - 5, 10, 5 (multiple other answers though)

Challenge 8 - £14.20