Maths WB 4.5.20

Each day's work links to a teaching video available at https://whiterosemaths.com/homelearning/year-4/.

Select Summer – Week 3 and the lesson that you are completing. The activity sheet linked to the lesson is the same as the questions in this pack. The answers are also available via the website.

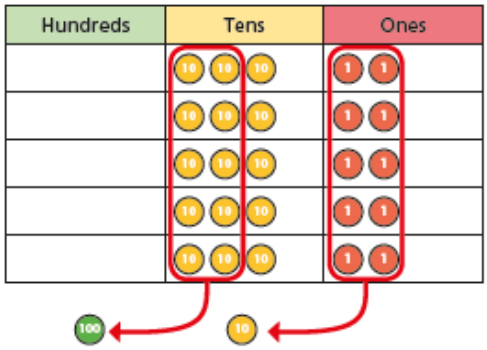
Monday 4th May 2020

LO: Multiply 2-digit by 1-digit numbers

To start this week, we would like you to practise your written methods of multiplication. You can choose whether you would like to use expanded method or compact method.

	2	5									
x		4								2	5
	2	0	(5	x	4)				x		4
	8	0	(2	0	x	4)			1	0	0
1	0	0								2	
1											

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 = ☐

Use Brett's method to work out 6 × 34

6 × 34 = ☐

Hundreds	Tens	Ones

Hundreds	Tens	Ones

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.

How is this method different?

Use Dani's method to work out 3 × 27

4 Use a written method to complete the multiplications.

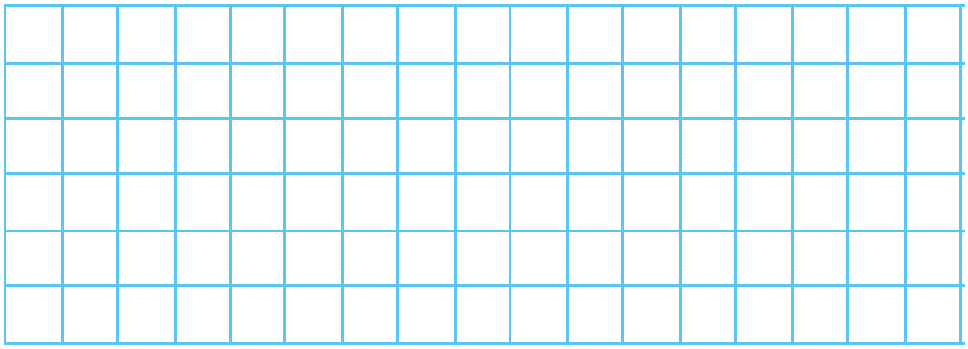
a) 38 × 6 = ☐

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?

☐

Tuesday 5th May 2020

LO: Multiply 3-digit by 1-digit numbers

Today, we would like you to continue to practise your written methods of multiplication. You can choose whether you would like to use expanded method or compact method.

If you need extra support, visit https://whiterosemaths.com/homelearning/year-4/ and select Summer – Week 3 – Lesson 2 to find a video to support you.

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 = ☐

Hundreds	Tens	Ones

Hundreds	Tens	Ones

Hundreds	Tens	Ones

Hundreds	Tens	Ones

Hundreds	Tens	Ones

Hundreds	Tens	Ones

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

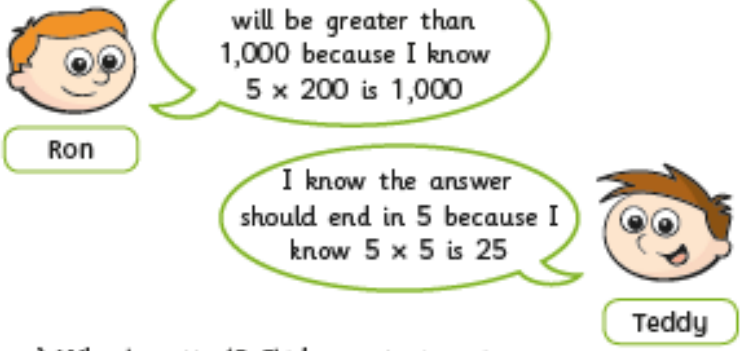
e) 3 × 240

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

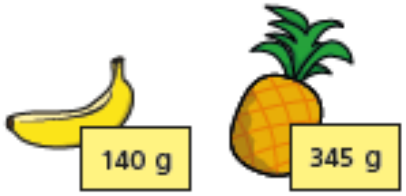
7 There are 7 year groups in a school.

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 _____.

Wednesday 6th May 2020

LO: Divide 2-digit by 1-digit numbers

To start this week, we would like you to practise your written methods of multiplication. For division, we use bus stop method.

		4	r	4
5	2	4		

If you need extra support, visit https://whiterosemaths.com/homelearning/year-4/ and select Summer – Week 3 – Lesson 3 to find a video to support you.

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?

Tens	Ones

Tens	Ones

Tens	Ones

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 = ☐

Can you spot the pattern with these questions?

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

I know without working it out that $76 \div 4$ must be 18 r4

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.

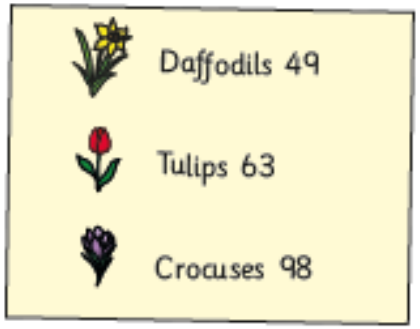
a) Complete the division to work it out.

☐ ÷ ☐ = ☐ 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?

Thursday 7th May 2020

LO: Divide 3-digit by 1-digit numbers

To start this week, we would like you to practise your written methods of multiplication. For division, we use bus stop method.

If you need extra support, visit https://whiterosemaths.com/homelearning/year-4/ and select Summer – Week 3 – Lesson 4 to find a video to support you.

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 = ☐

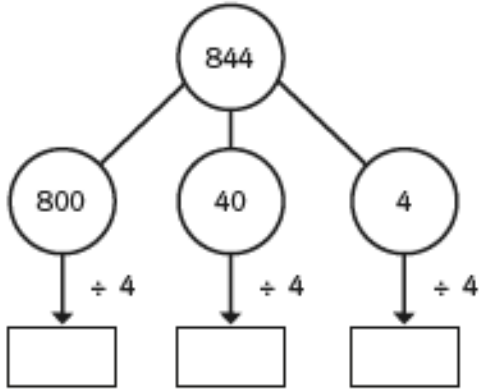
H	T	O

H	T	O

H	T	O

H	T	O

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



Complete Eva's method.

844 ÷ 4 = ☐

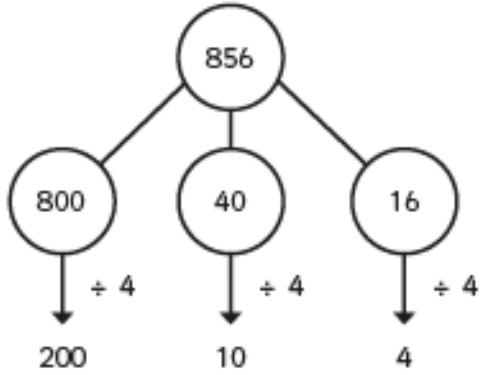
4 A ball of string is 848 cm long.

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.

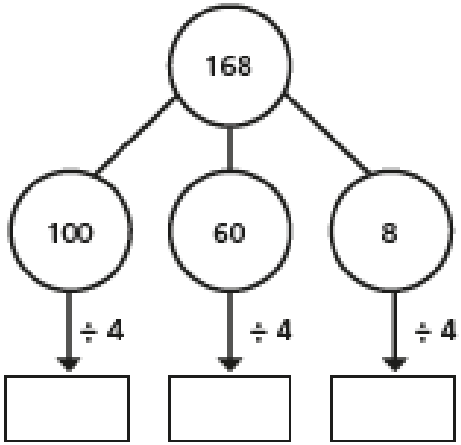
a) 585 ÷ 5 = ☐

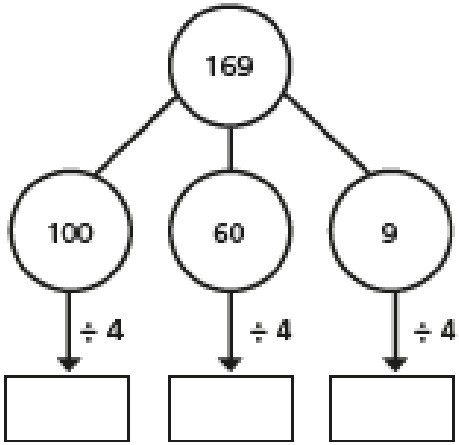
b) 672 ÷ 6 = ☐

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 = ☐ c) 864 ÷ 4 = ☐

b) 623 ÷ 5 = ☐ 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.

If you do not have counters, you could use Lego bricks, pencils, coins or anything you might find around the house!

Ones	
Tens	
Hundreds	