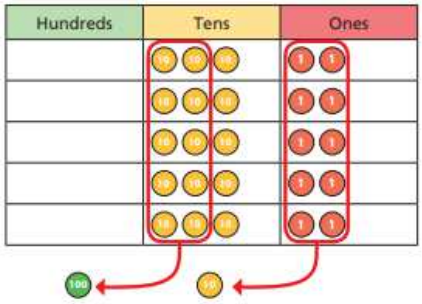
Monday 4th May 2020 Summer Term- Week 3- Lesson 1- Multiply 2dn by a 1dn

Please watch the video first https://whiterosemaths.com/homelearning/year-4/ (Week 3 Lesson 1)

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 = ☐

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?

Tuesday 5th May 2020 Summer Term- Week 3- Lesson 2- Multiply 3dn by a 1dn

Please watch the video first https://whiterosemaths.com/homelearning/year-4/ (Week 3 Lesson 2)

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 = ☐

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

Ron: I know the answer will be greater than 1,000 because I know 5 × 200 is 1,000

Teddy: I know the answer should end in 5 because I know 5 × 5 is 25

a) Who is correct? Circle your answer.

Ron Teddy both neither

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

c)

	H	T	O
	1	0	8
×			6

b)

	H	T	O
	4	3	9
×			2

d) 163 × 5

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

☐

7 There are 7 year groups in a school.

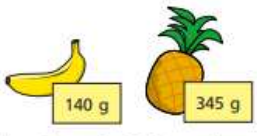
There are 112 children in each year group.

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 Summer Term- Week 3- Lesson 3- Divide 2dn by a 1dn

Please watch the video first https://whiterosemaths.com/homelearning/year-4/ (Week 3 Lesson 3)

Divide 2-digits by 1-digit (2)

White Rose Maths

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

Tens	Ones
10 10 10 10	1 1 1 1
10	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 = ☐ e) 49 ÷ 6 = ☐

b) 26 ÷ 5 = ☐ f) 47 ÷ 4 = ☐

c) 89 ÷ 4 = ☐ g) 74 ÷ 3 = ☐

d) 32 ÷ 5 = ☐ h) 81 ÷ 7 = ☐

3 Complete the divisions.

a) 36 ÷ 4 = ☐ c) 45 ÷ 3 = ☐

37 ÷ 4 = ☐ 46 ÷ 3 = ☐

38 ÷ 4 = ☐ 47 ÷ 3 = ☐

39 ÷ 4 = ☐ 48 ÷ 3 = ☐

40 ÷ 4 = ☐ 49 ÷ 3 = ☐

b) 70 ÷ 5 = ☐ d) 92 ÷ 4 = ☐

71 ÷ 5 = ☐ 91 ÷ 4 = ☐

72 ÷ 5 = ☐ 90 ÷ 4 = ☐

73 ÷ 5 = ☐ 89 ÷ 4 = ☐

74 ÷ 5 = ☐ 88 ÷ 4 = ☐

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

c) Complete the sentence.

Annie can fill ☐ boxes with ☐ eggs left over.

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?

_____

_____

b) Explain why Dora is wrong.

_____

_____

5 Eggs come in boxes of 6

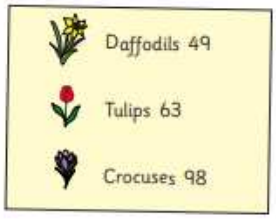
Annie has 75 eggs.

She wants to know how many boxes she can fill.

a) Complete the division to work it out.

☐ ÷ ☐ = ☐ r ☐

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 Summer Term- Week 3- Lesson 4- Divide 3dn by a 1dn

Please watch the video first https://whiterosemaths.com/homelearning/year-4/ (Week 3 Lesson 4)

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 = ☐ c) 840 ÷ 8 = ☐

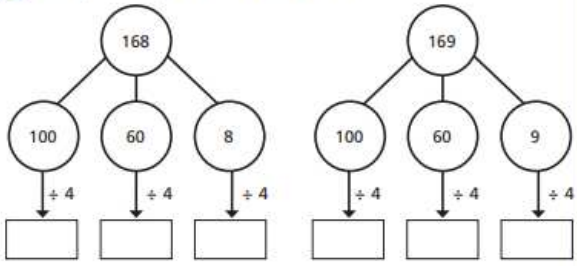
b) 636 ÷ 6 = ☐ d) 903 ÷ 3 = ☐

Use Whitney's method to work out these divisions.

a) 585 ÷ 5 = ☐ c) 648 ÷ 4 = ☐

b) 672 ÷ 6 = ☐ 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?

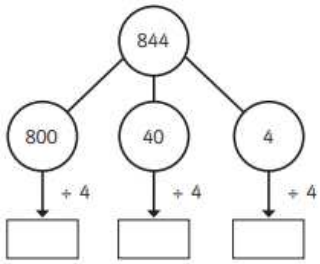
Talk about it with a partner.

7 Complete the divisions.

a) 258 ÷ 6 = ☐ c) 864 ÷ 4 = ☐

b) 623 ÷ 5 = ☐ d) 824 ÷ 3 = ☐

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



Complete Eva's method. 844 ÷ 4 = ☐

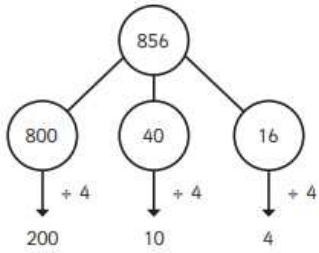
4 A ball of string is 848 cm long.

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?

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.

Friday 8th May 2020 Consolidation day!

TTRS- complete minimum of 5 games. Where will you end up on the leaderboard this week?

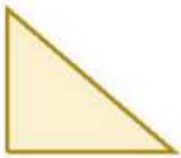
These are activities to keep our maths learning 'sticky'. Select at least 2 of the activities below to complete your maths lesson today.

- Numbots
- BBC Bitesize game- Guardians Defenders of Mathematica
- 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.

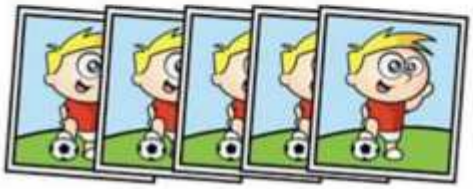
The total cost of the two items is 82p.

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**.

Anisa wants to fill the barrel with water.

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