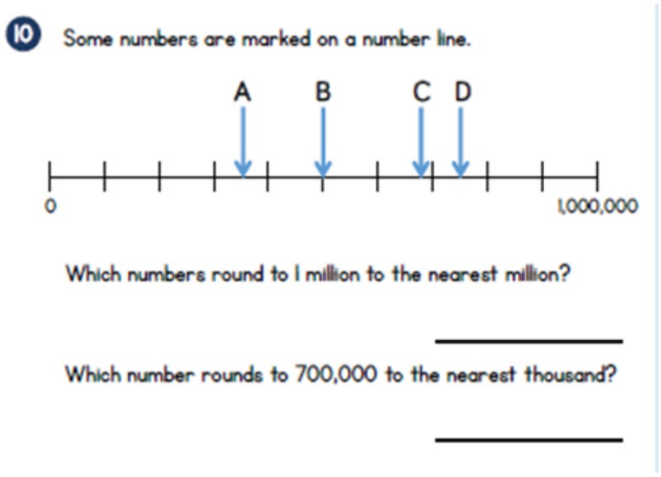
18.10.21

How do you divide?



10 Some numbers are marked on a number line.

Which numbers round to 1 million to the nearest million?

Which number rounds to 700,000 to the nearest thousand?

What do you know about division?
What vocabulary would you expect to use for division?

How would you solve this

$$350 \div 5 = \ ?$$

6565 ÷ 5 =

Model

Thousands	Hundreds	Tens	Ones

Calculation

$$5247 \div 3 =$$

Model

Thousands	Hundreds	Tens	Ones

Calculation

Use the model alongside the short division method to solve:

4,892 ÷ 4 =

6,610 ÷ 5 =

Complete the following

725 ÷ 5 =

1938 ÷ 3 =

6,036 ÷ 12 =

3612 ÷ 7 =

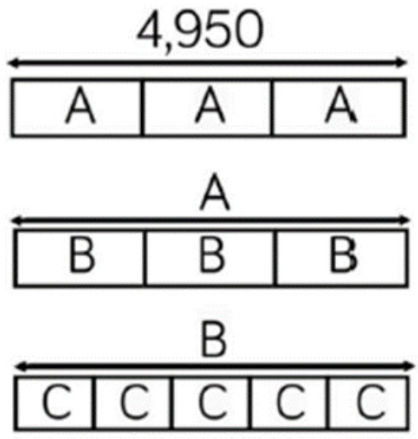
Extension

Use <, > or = to make the statements correct.

3,495 ÷ 5	◯	3,495 ÷ 3
8,064 ÷ 7	◯	9,198 ÷ 7
7,428 ÷ 4	◯	5,685 ÷ 5

Challenge

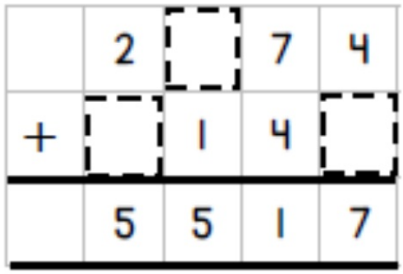
Work out the value of C.
(The bar models are not drawn to scale)



19.10.21

What is left over?

2 Complete the missing digits.



	2		7	4
+		1	4	
	5	5	1	7

What happens when we divide but can't make equal groups?

531 ÷ 5 =

Model

Hundreds	Tens	Ones

Calculation

4,894 ÷ 4 =

Model

Thousands	Hundreds	Tens	Ones

Calculation

$6{,}613 \div 5 =$

Model

Thousands	Hundreds	Tens	Ones

Calculation

Use the model to calculate

2,471 ÷ 3 =

472 ÷ 3 =

5,623 ÷ 6 =

623 ÷ 6 =

Division Rules

What patterns do you already know about the multiplication tables?

Let's explore a divisor of 2

Calculation	Whole number answer	Remainder of 1

Conjecture

What is the rule for the type of numbers that appear in each column?

Investigate divisor of 3 and 5

Investigate divisor of 4 and 8

Investigate divisor of 6, 7 and 9

I am thinking of a 3-digit number.

When it is divided by 9, the remainder is 3

When it is divided by 2, the remainder is 1

When it is divided by 5, the remainder is 4

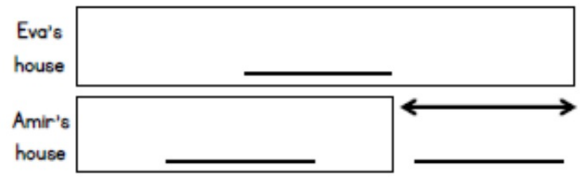
What is my number?

20.10.21

Can you write a remainder as a fraction?

3 Eva's House is worth £653, 000
Amir's house is worth £179, 000 less than Eva's house.

Complete the bar model to represent the information.

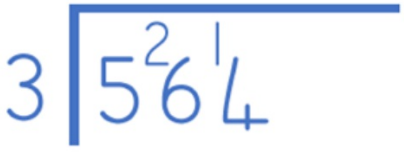


Explain the mistakes

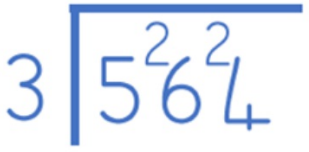
$564 \div 3$

Mistake 1

Mistake 2



Mistake 3



346 ÷ 5 =

$$4{,}894 \div 4 =$$

$$6{,}613 \div 5 =$$

Is this correct

$3{,}478 \div 5 = 695$

Task

5673÷ 2 =

5327 ÷ 5 =

3519 ÷ 5 =

1209 ÷ 2 =

5246 ÷ 4 =

7,054 ÷ 4 =

Challenge

How many ways?

Complete using digits 0-9. Position the digits 1, 2 and 4 as shown.

Level 1: I can find a way

Level 2: I can find different ways

Level 3: I know how many ways there are

21.10.21

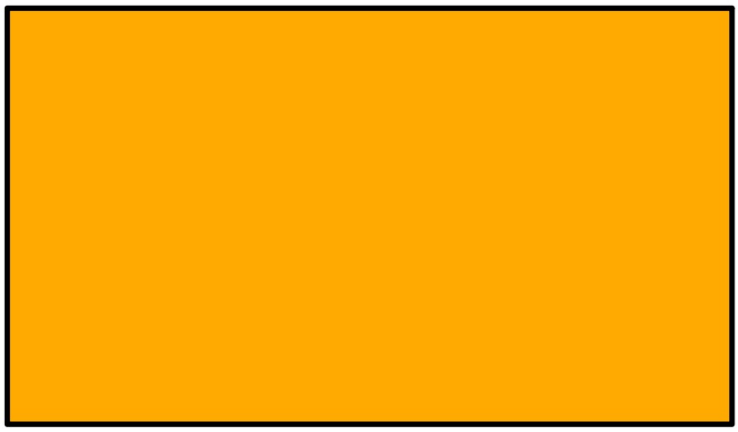
Can you use factors to divide?

What is a factor?

How can they help us to divide?

What factors could you use?

240 ÷ 20 =



Which factors are the most efficient?

780 ÷ 20 =

480 ÷ 60 =

4,320 ÷ 15 =

Task

120 ÷ 20 =

240 ÷ 40 =

360 ÷ 30 =

550 ÷ 50 =

340 ÷ 20 =

560 ÷ 40 =

480 ÷ 12 =

450 ÷ 15 =

480 ÷ 16 =

Challenge

How many ways?

60 ÷ ____ = 12 ÷ ____

Complete using positive whole numbers.

Level 1: I can find a way

Level 2: I can find different ways

Level 3: I know how many ways there are