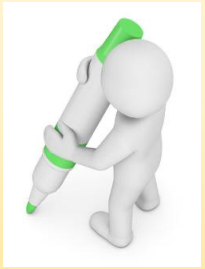
Think about how to answer it,
solve it in your head.

Write the answers down.

New symbols to look out for:



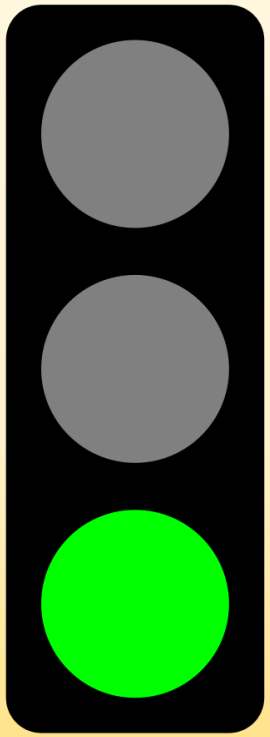
It's your turn to be the teacher!

With an adult or sibling or on your own, mark your work for this lesson.

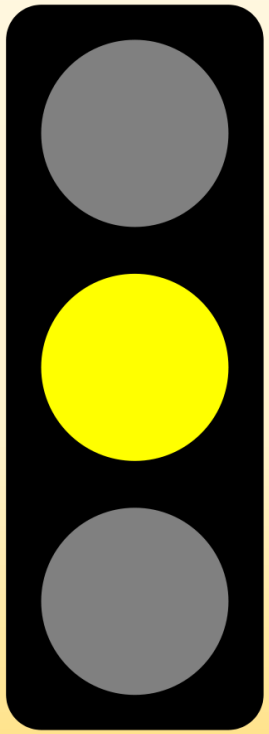
I will check your work for you.

Send me your answers on Google Classroom to check. Or you can write your answers down and send me a photo on Google Classroom, whatever is easier ☺

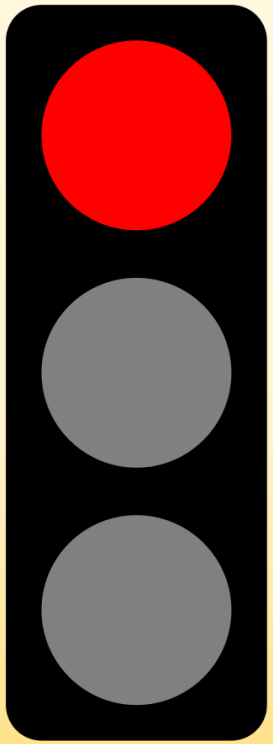
When choosing which questions to answer, use this as a guide to help.



Easier



Medium



Harder

Monday 4th May 2020

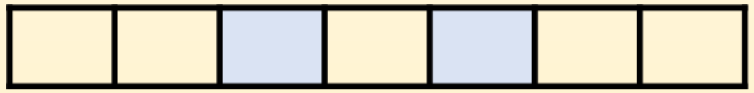
L.O. I am learning that tenths can be written as decimals

Key vocabulary: whole part decimal fraction divide tenths **numerator** **denominator**

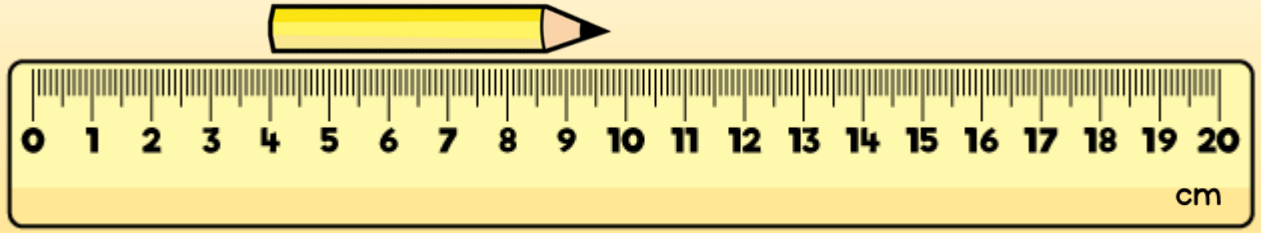
04.05.20
Mental Maths

1) Compete the sequence $\frac{5}{10}$, $\frac{6}{10}$, $\frac{7}{10}$, ——

2) What fraction of the shape is shaded?

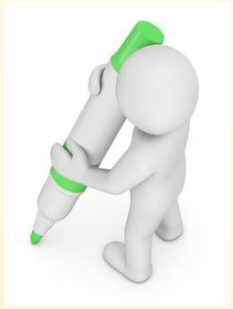


3) How long is the pencil?



4) What is 8 × 4?

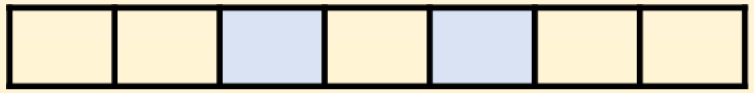
04.05.20
Mental Maths



Check your answers!

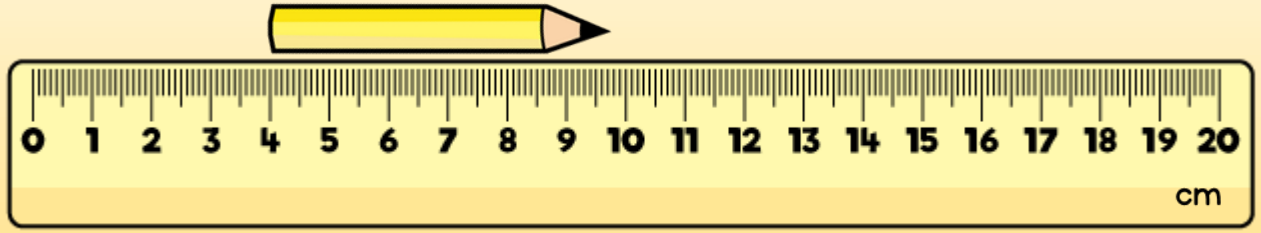
1) Compete the sequence $\frac{5}{10}$, $\frac{6}{10}$, $\frac{7}{10}$, $\frac{8}{10}$

2) What fraction of the shape is shaded?



= $\frac{2}{7}$

3) How long is the pencil?



= 5cm and 9mm

Also accept 6cm

4) What is 8 × 4? = 32

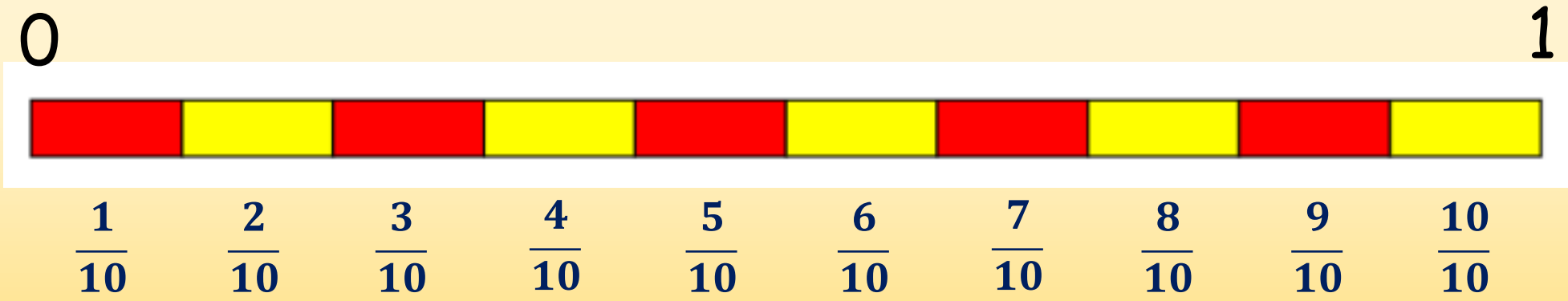
Monday 4th May 2020

L.O. I am learning that tenths can be written as decimals

Recap:

One whole divided in to 10 equal parts, each part equals a tenth.

$$1 \div 10 = \frac{1}{10}$$



Key vocabulary: whole part decimal fraction divide tenths **numerator** **denominator**

Monday 4th May 2020
L.O. I am learning that tenths can be written as decimals

Watch this BBC Bitesize video on turning tenths into decimals.

https://www.bbc.co.uk/bitesize/clips/zr6pvcw

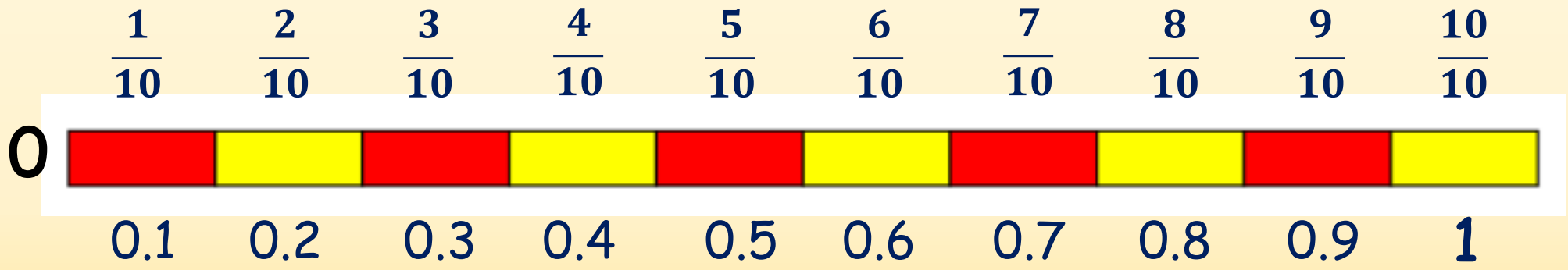
Key vocabulary: whole part decimal fraction divide tenths **numerator** **denominator**

Monday 4th May 2020

L.O. I am learning that tenths can be written as decimals

Tenths can also be written as decimals.

Decimals also show us part of a whole, just like fractions do.

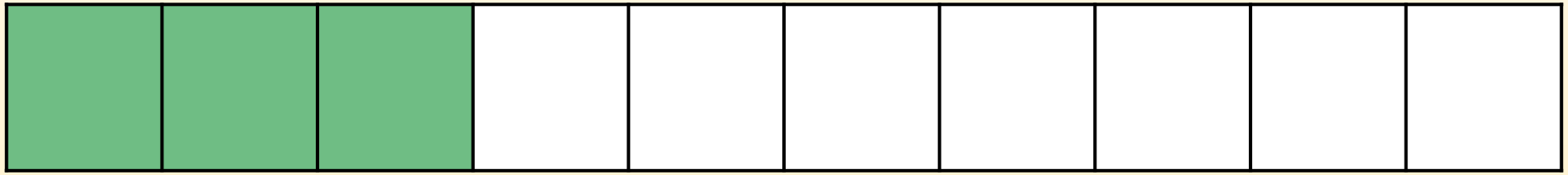


Key vocabulary: whole part decimal fraction divide tenths **numerator** **denominator**

Monday 4th May 2020

L.O. I am learning that tenths can be written as decimals

What decimal fraction is shown?



0.3	0.6	0.8

Key vocabulary: whole part decimal fraction divide tenths **numerator** **denominator**

Monday 4th May 2020

L.O. I am learning that tenths can be written as decimals

What decimal fraction is shown?

0.1	0.1	0.1	0.1	0.1	0.1				

0.3

0.6

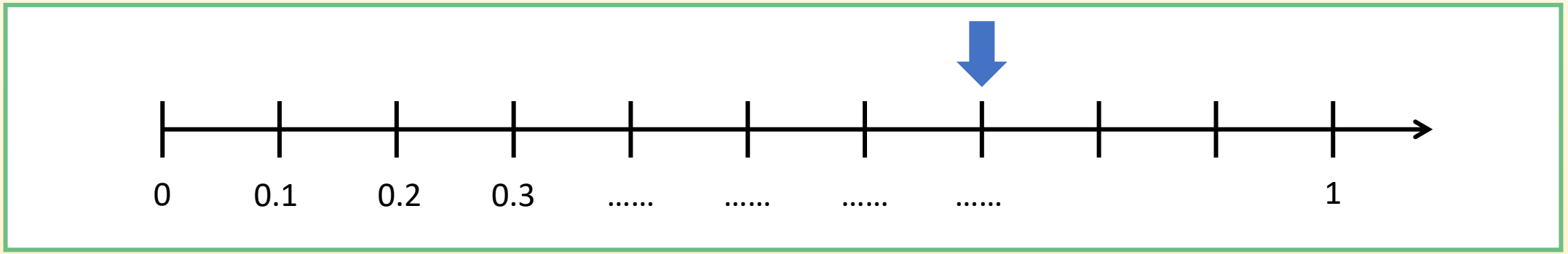
0.8

Key vocabulary: whole part decimal fraction divide tenths **numerator** **denominator**

Monday 4th May 2020

L.O. I am learning that tenths can be written as decimals

What decimal fraction is shown?



0.3	0.6	0.7

Key vocabulary: whole part decimal fraction divide tenths **numerator** **denominator**

Let's try solve these questions using what we have learnt:

1. Match each bar model to the equivalent decimal.

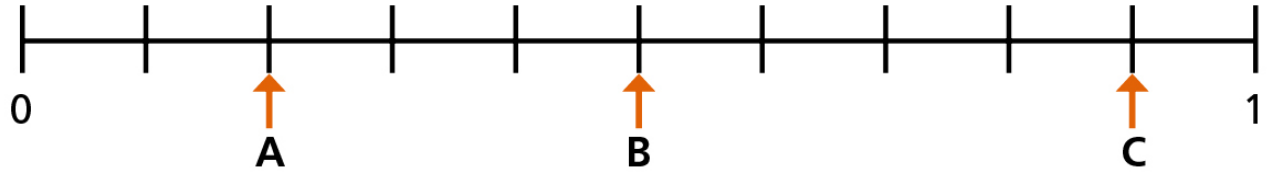
0.8

0.6

0.4

Keep going, you're doing great!

2. What decimal is each arrow pointing to?



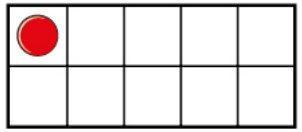
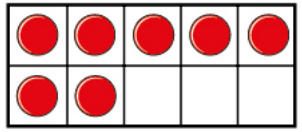
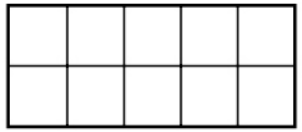
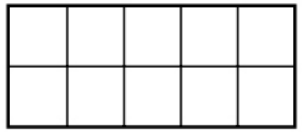
A = ☐ B = ☐ C = ☐

3. Continue the pattern.

$\frac{1}{10}$	0.2	3 tenths	$\frac{4}{10}$	0.5	6 tenths				
						Fraction	Decimal	Words	Fraction

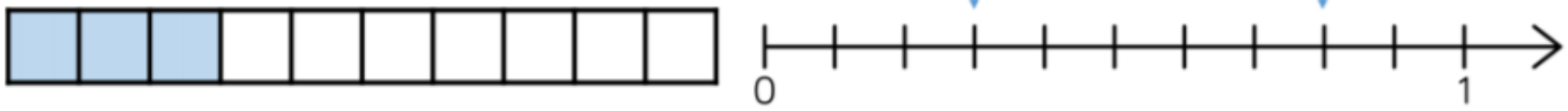
Final question before you reach the challenges.

4. Complete the table.

Representation	Words	Fraction	Decimal
	1 tenth		0.1
		$\frac{7}{10}$	
			0.3
	5 tenths		

Challenges:

Write the fractions and decimals shown.



Place the decimals and fractions on the number line.

$0.7 \quad \frac{3}{10} \quad \frac{1}{10} \quad 0.9 \quad \frac{10}{10}$

True or False?

Dora: 10 cm is one tenth of 1 metre

10 cm is 0.1 metres.

Amir

Explain your answer.

Well done!

Now it's time to check your work.

Check your answers.

If you make a mistake, try and work out where it went wrong.

1. Match each bar model to the equivalent decimal.

0.8

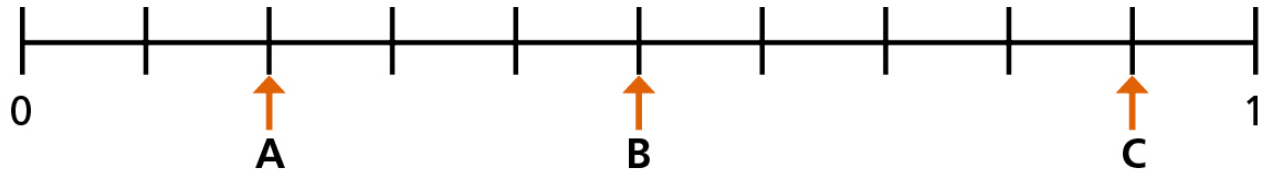
0.6

0.4

Check your answers.

If you make a mistake, try and work out where it went wrong.

2. What decimal is each arrow pointing to?



A = 0.2 B = 0.5 C = 0.9

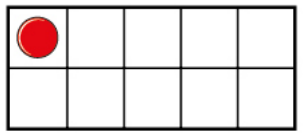
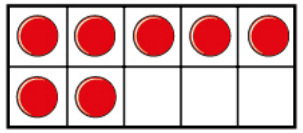
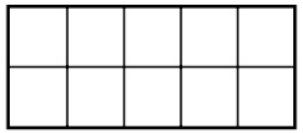
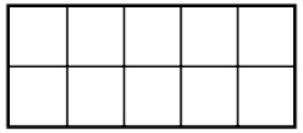
3. Continue the pattern.

$\frac{1}{10}$	0.2	3 tenths	$\frac{4}{10}$	0.5	6 tenths	$\frac{7}{10}$	0.8	9 tenths	$\frac{10}{10}$
						Fraction	Decimal	Words	Fraction

Check your answers.

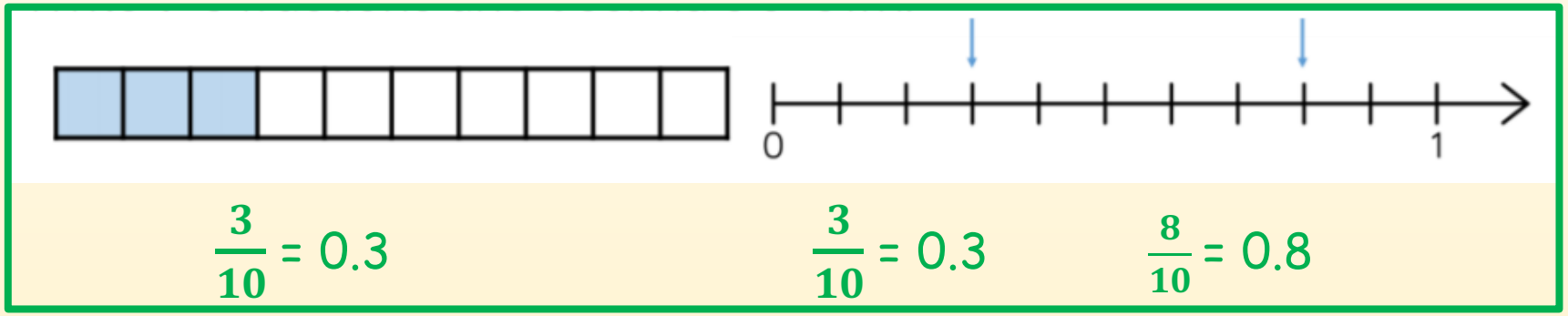
If you make a mistake, try and work out where it went wrong.

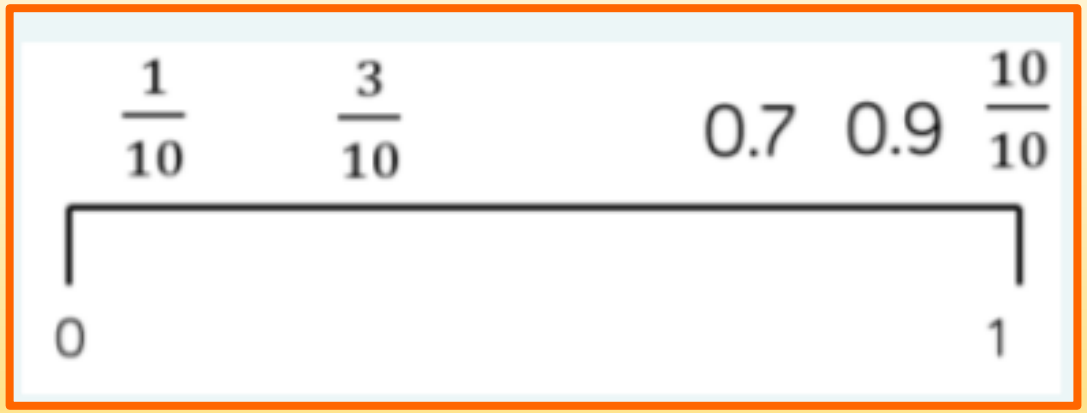
4. Complete the table.

Representation	Words	Fraction	Decimal
	1 tenth	$\frac{1}{10}$	0.1
	7 tenths	$\frac{7}{10}$	0.7
	3 tenths	$\frac{3}{10}$	0.3
	5 tenths	$\frac{5}{10}$	0.5

Check your answers.

If you make a mistake, try and work out where it went wrong.





They are both correct.

10 cm = $\frac{1}{10}$ m = 0.1 m

Tuesday 5th May 2020

L.O. I am learning count in fractions on a number line.

Key vocabulary: whole part fraction divide number line **numerator** **denominator**

05.05.20
Mental Maths

1) Write $\frac{3}{10}$ as a decimal.

2) Which fraction is equal to 1 whole?

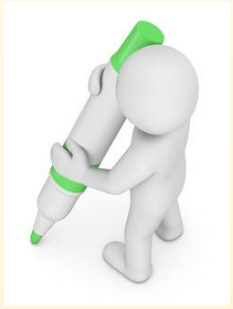
$\frac{3}{5}$ $\frac{9}{9}$ $\frac{10}{3}$ $\frac{6}{7}$

3) How many centimetres are equal to 8 metres?

4) Divide 48 by 2

05.05.20
Mental Maths

Check your answers!



1) Write $\frac{3}{10}$ as a decimal. = 0.3

2) Which fraction is equal to 1 whole?

$\frac{3}{5}$ $\boxed{\frac{9}{9}}$ $\frac{10}{3}$ $\frac{6}{7}$

3) How many centimetres are equal to 8 metres? = 800cm

4) Divide 48 by 2 = 24

Tuesday 5th May 2020

L.O. I am learning count in fractions on a number line.

We have been looking at fractions and today we will look at fractions that are bigger than 1 whole.

Example:

$$\frac{12}{10} = \frac{10}{10} + \frac{2}{10}$$

We know that $\frac{10}{10}$ is equal to 1 whole so we can rewrite this large fraction like this:

$$\underset{\text{whole}}{1} + \frac{2}{10} = 1\frac{2}{10}$$

Key vocabulary: whole part fraction divide number line **numerator** **denominator**

Tuesday 5th May 2020

L.O. I am learning count in fractions on a number line.

Always make 1 whole first and add the left over parts of the fraction.

Let's look at another example:

$$\frac{5}{3} = \frac{3}{3} + \frac{2}{3}$$

We know that $\frac{3}{3}$ is equal to 1 whole so we can rewrite this large fraction like this:

$$\underset{\text{whole}}{1} + \frac{2}{3} = 1\frac{2}{3}$$

Key vocabulary: whole part fraction divide number line **numerator** **denominator**

Tuesday 5th May 2020

L.O. I am learning count in fractions on a number line.

Always make 1 whole first and add the left over parts of the fraction.

Let's look at another example:

$$\frac{7}{4} = \frac{4}{4} + \frac{3}{4}$$

We know that $\frac{4}{4}$ is equal to 1 whole so we can rewrite this large fraction like this:

$$\underset{\text{whole}}{1} + \frac{3}{4} = 1\frac{3}{4}$$

Key vocabulary: whole part fraction divide number line **numerator** **denominator**

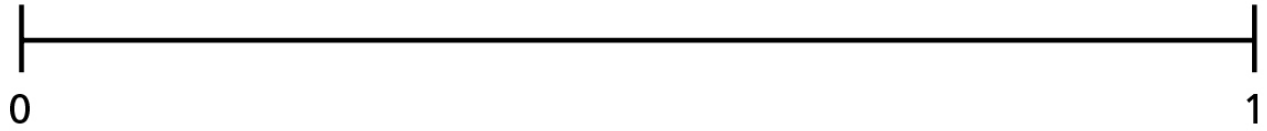
Tuesday 5th May 2020

L.O. I am learning count in fractions on a number line.

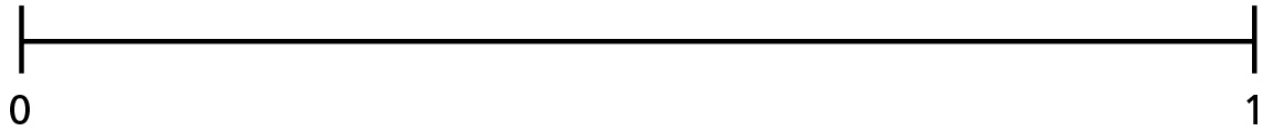
Using this new knowledge, we are going to order fractions on a number line. Some of the number lines will include fractions bigger than 1.

Do you know where we would place these fractions on a number line?

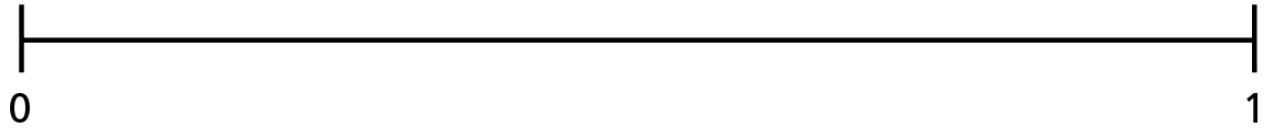
a) $\frac{1}{2}$



b) $\frac{1}{3}$



c) $\frac{1}{4}$



Key vocabulary: whole part fraction divide number line **numerator** **denominator**

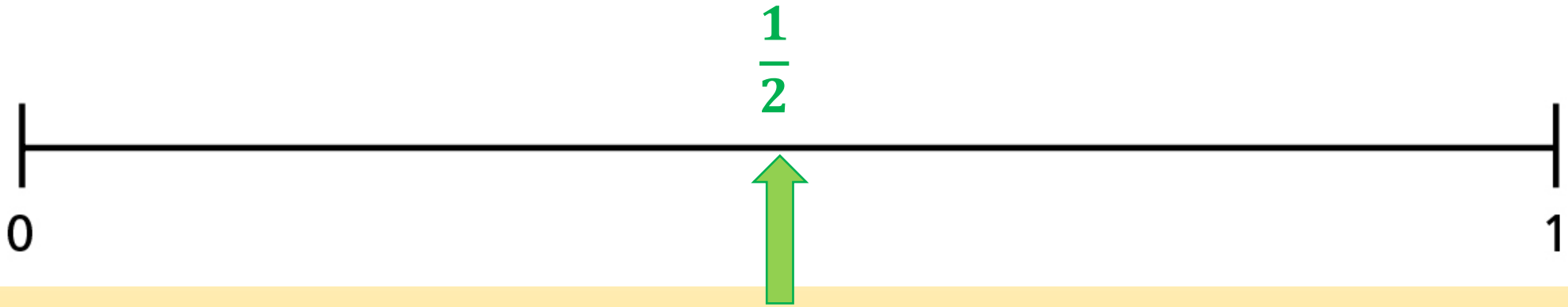
Tuesday 5th May 2020

L.O. I am learning count in fractions on a number line.

We need to look at the denominator to help us place the fraction.

The denominator tells us how many parts we need to split our number line into.

a) $\frac{1}{2}$



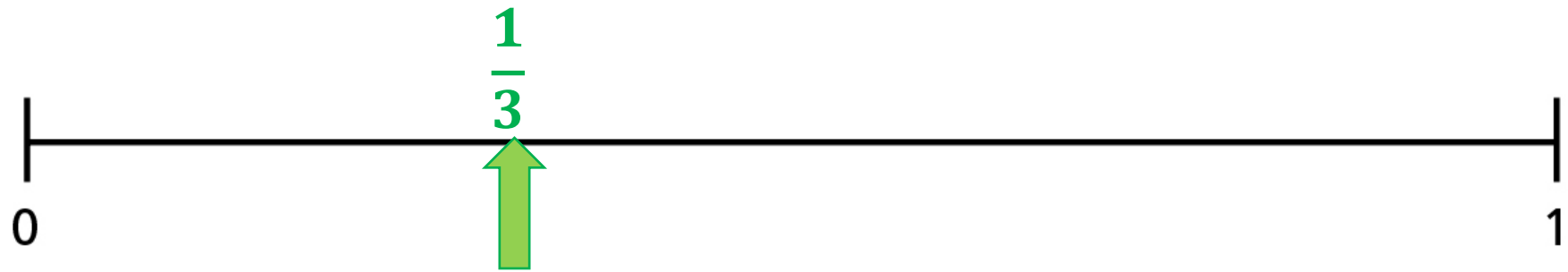
$\frac{1}{2}$ has a denominator of 2.

We need to split our line into 2 equal parts.

Key vocabulary: whole part fraction divide number line **numerator** **denominator**

Remember: These are estimates of where the fraction will be.
Today we do not need to measure exactly where it goes.

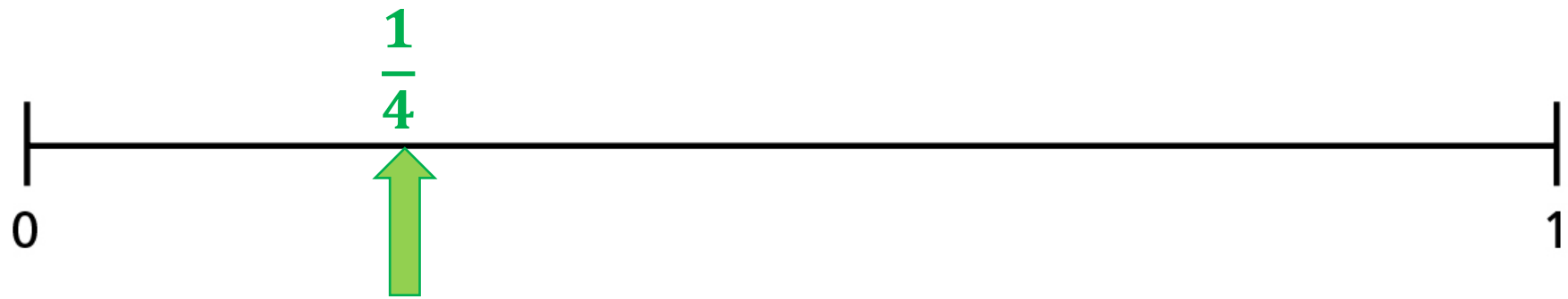
b) $\frac{1}{3}$



$\frac{1}{3}$ **has a denominator of 3.**

We need to split our line into 3 equal parts.

c) $\frac{1}{4}$



$\frac{1}{4}$ **has a denominator of 4.**

We need to split our line into 4 equal parts.

Key vocabulary: whole part fraction divide number line **numerator** **denominator**

Let's try solve these questions using what we have learnt:

1. Write each fraction under the correct heading.

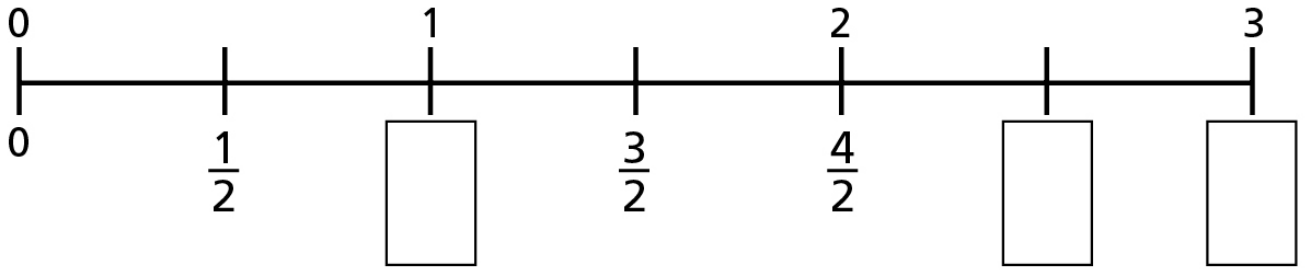
$\frac{2}{3}$	$\frac{4}{4}$	$\frac{5}{3}$	$\frac{1}{8}$	$\frac{3}{3}$
$\frac{3}{4}$	$\frac{7}{4}$	$\frac{8}{8}$	$\frac{7}{8}$	

Less than one whole	Equal to one whole	More than one whole

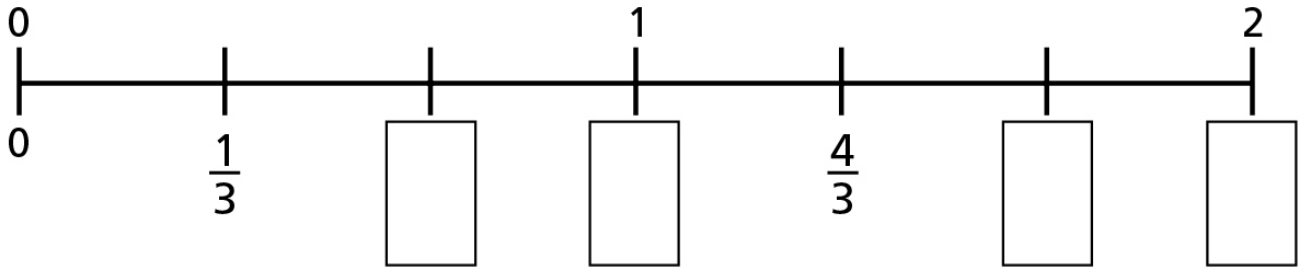
Keep going, you're doing great!

2. Write the missing fractions on the number lines.

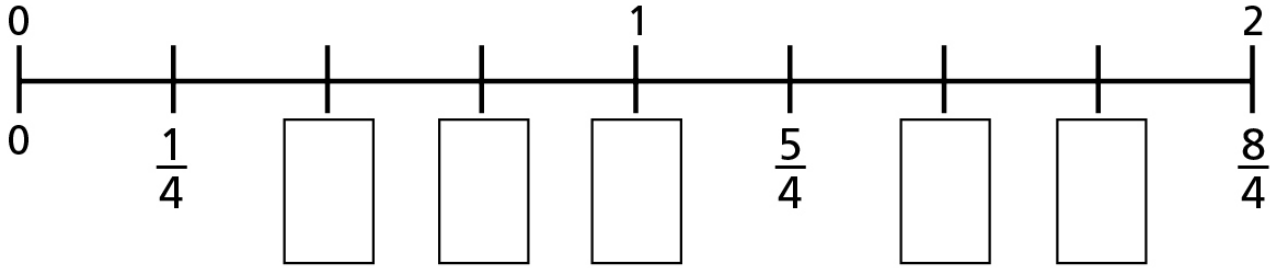
a)



b)



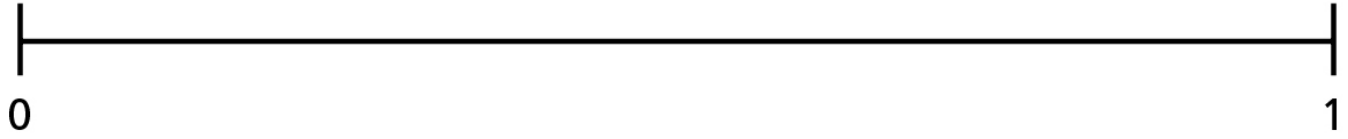
c)



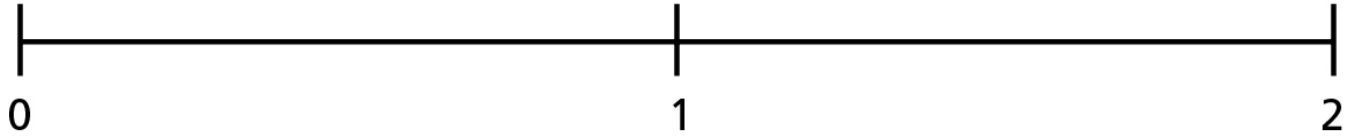
Almost there ☺

3. Draw an arrow to estimate where each fraction belongs on the number line.

a) $\frac{3}{4}$



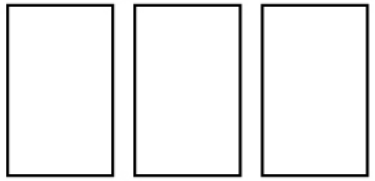
b) 1 and $\frac{2}{3}$



Final question before you reach the challenges.

4. Write three fractions that are equivalent to one whole.

Use the number lines to help you.



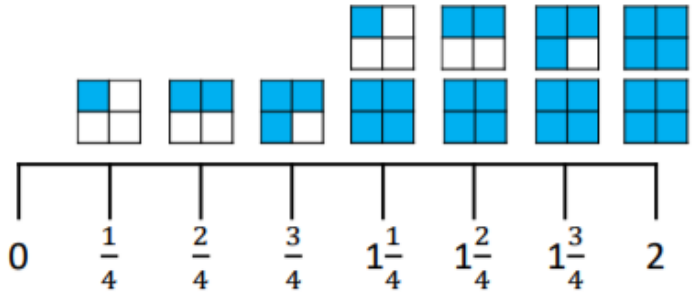
What do you notice?

_____

_____

Challenges:

Eva has drawn a number line.



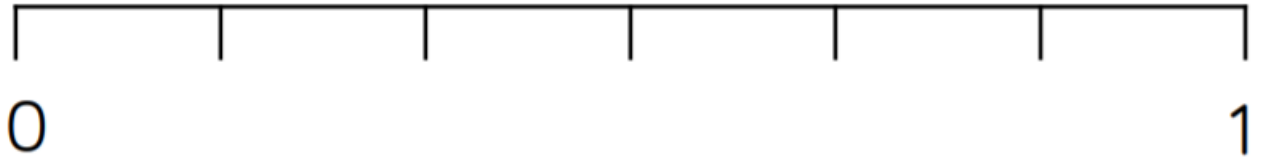
Tommy says it is incorrect.

Do you agree with Tommy?

Explain why.

Can you draw the next three fractions?

The number line has been divided into equal parts.
Label each part correctly.



Alex and Jack are counting up and down in thirds.

Alex starts at $5\frac{1}{3}$ and counts backwards.

Jack starts at $3\frac{1}{3}$ and counts forwards.

What fraction will they get to at the same time?

Well done!

Now it's time to check your work.

Check your answers.

If you make a mistake, try and work out where it went wrong.

1. Write each fraction under the correct heading.

$\frac{2}{3}$ $\frac{4}{4}$ $\frac{5}{3}$ $\frac{1}{8}$ $\frac{3}{3}$

$\frac{3}{4}$ $\frac{7}{4}$ $\frac{8}{8}$ $\frac{7}{8}$

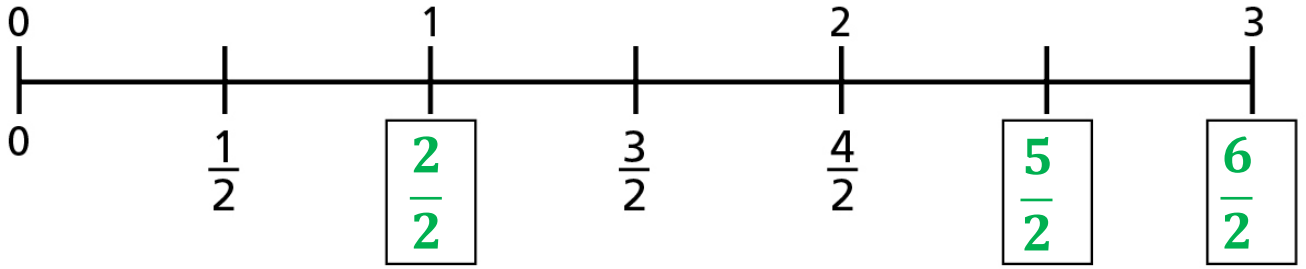
Less than one whole	Equal to one whole	More than one whole
$\frac{2}{3}$ $\frac{3}{4}$ $\frac{7}{8}$ $\frac{1}{8}$	$\frac{4}{4}$ $\frac{8}{8}$ $\frac{3}{3}$	$\frac{7}{4}$ $\frac{5}{3}$

Check your answers.

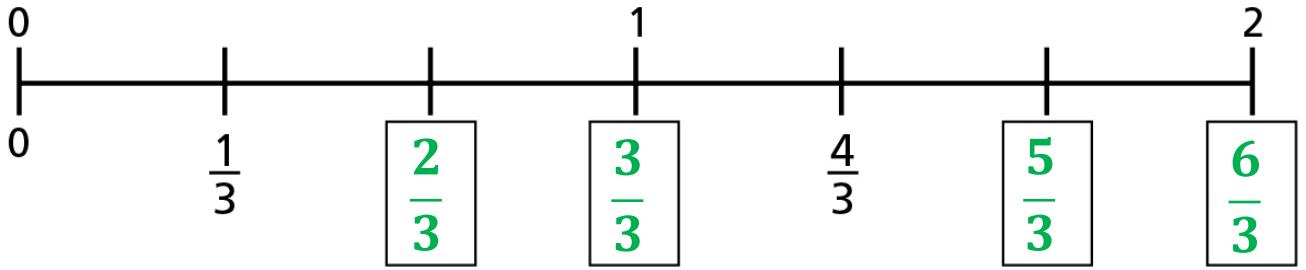
If you make a mistake, try and work out where it went wrong.

2. Write the missing fractions on the number lines.

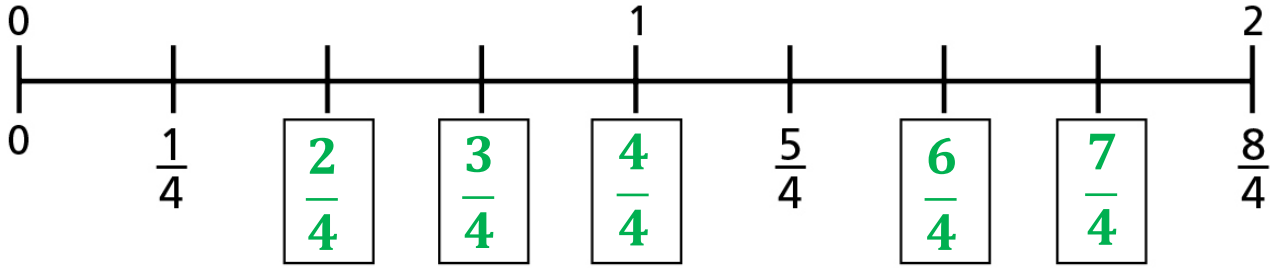
a)



b)



c)



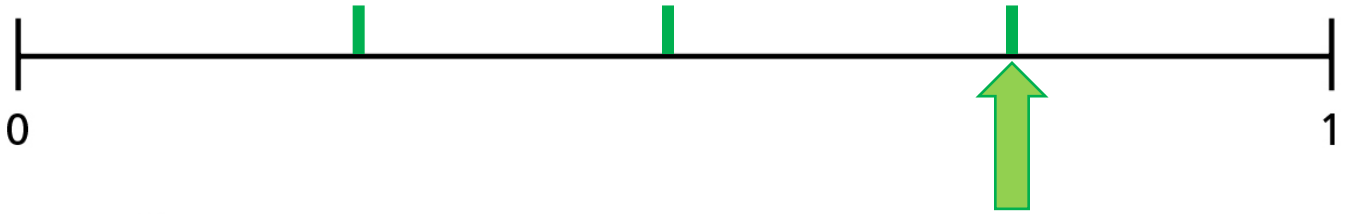
Check your answers.

If you make a mistake, try and work out where it went wrong.

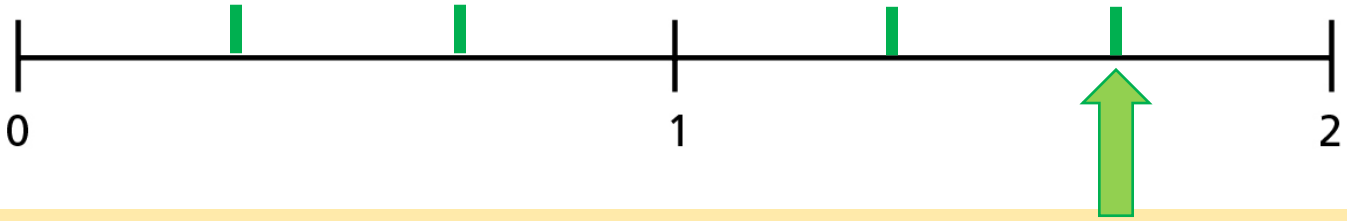
3. Draw an arrow to estimate where each fraction belongs on the number line.

a) $\frac{3}{4}$

= Split the line into **4 equal parts**.
Draw an arrow at the **third line**.



b) 1 and $\frac{2}{3}$



Check your answers.

If you make a mistake, try and work out where it went wrong.

4. Write three fractions that are equivalent to one whole.

Use the number lines to help you.

$\frac{2}{2}$ $\frac{3}{3}$ $\frac{4}{4}$

= Or any other fraction with the same numerator and denominator.

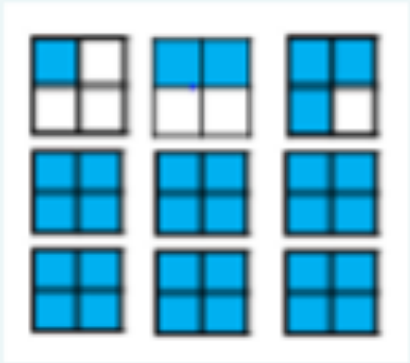
What do you notice?

The same numerator and the denominator are always the same.

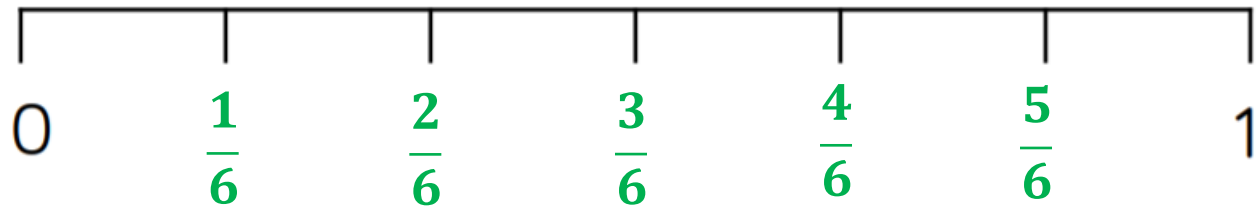
Check your answers.

If you make a mistake, try and work out where it went wrong.

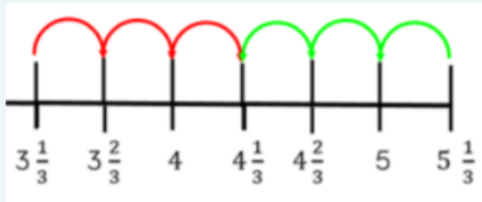
Tommy is correct because Eva has missed 1 whole out.



The number line has been divided into equal parts.
Label each part correctly.



They will reach $4\frac{1}{3}$



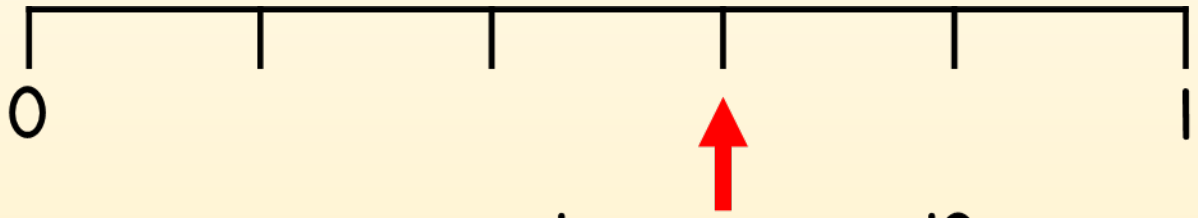
Wednesday 6th May 2020

L.O. I am learning to find fractions of amounts (1).

Key vocabulary: whole part fraction divide out of group set **numerator denominator**

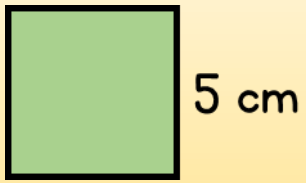
06.05.20
Mental Maths

1) What fraction is the arrow pointing to?



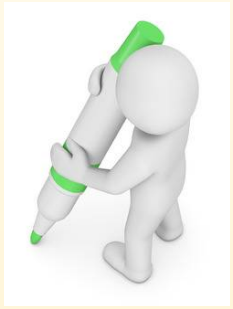
2) What fraction is $\frac{1}{10}$ more than $\frac{10}{10}$?

3) Find the perimeter of the square.



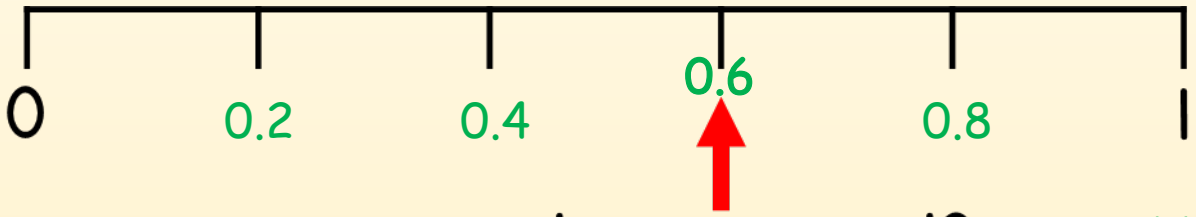
4) Subtract £1 and 40p from £5

06.05.20
Mental Maths



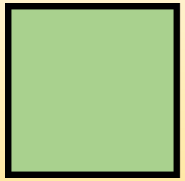
Check your answers!

1) What fraction is the arrow pointing to? = 0.6



2) What fraction is $\frac{1}{10}$ more than $\frac{10}{10}$? = $\frac{11}{10}$ *or* $1\frac{1}{10}$

3) Find the perimeter of the square.



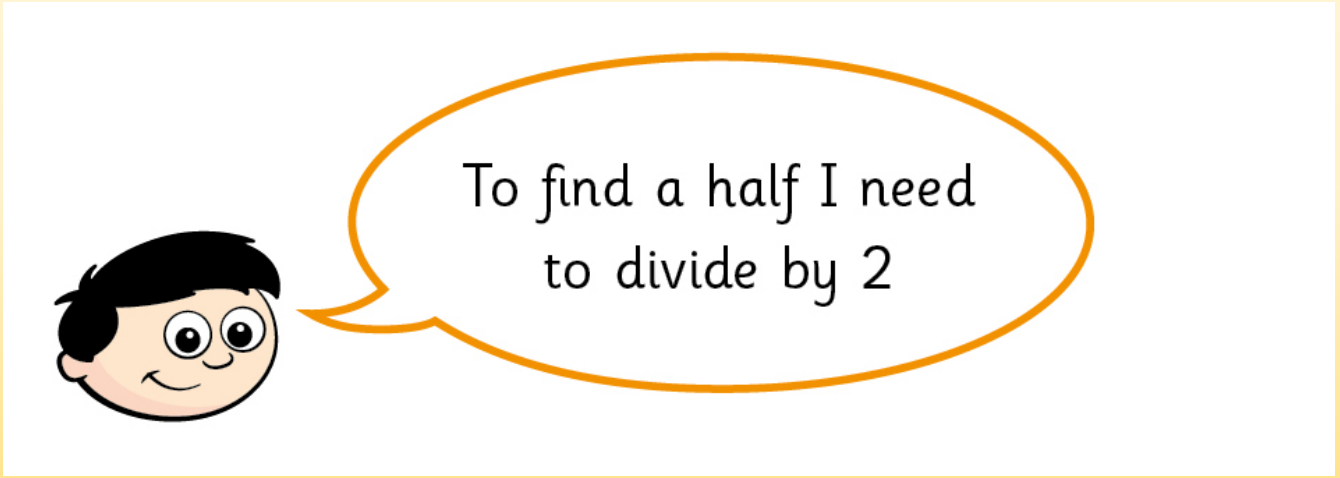
= 20cm

4) Subtract £1 and 40p from £5 = £3 and 60p

Wednesday 6th May 2020
L.O. I am learning to find fractions of amounts (1).

Today we are going to find fractions of amounts.

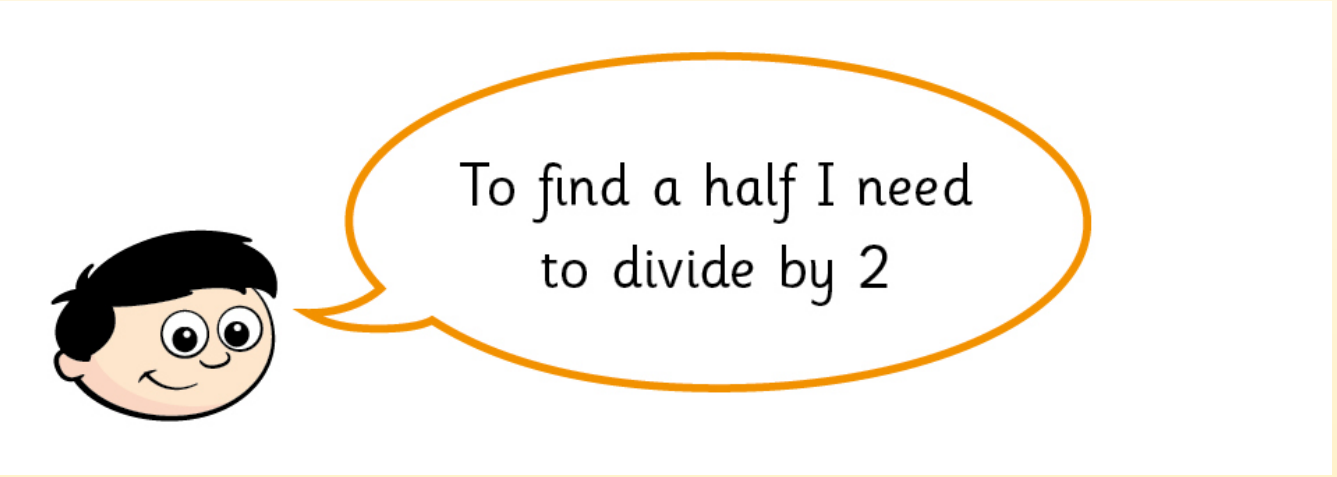
Look at the statement below, do you agree? Why?



Key vocabulary: whole part fraction divide out of group set **numerator denominator**

Wednesday 6th May 2020
L.O. I am learning to find fractions of amounts (1).

Do you agree? Why?



Yes.

We know that to find a fraction of something, we divide using the denominator. The denominator in $\frac{1}{2}$ is 2, so we divide by 2.

Key vocabulary: whole part fraction divide out of group set **numerator denominator**

Wednesday 6th May 2020

L.O. I am learning to find fractions of amounts (1).

When we are finding fractions of numbers, the first thing we need to do is look at the denominator.

The denominator will tell us what to divide by.

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ and so on...

÷ 2 ÷ 3 ÷ 4 ÷ 5 ÷ 6

Key vocabulary: whole part fraction divide out of group set **numerator denominator**

Wednesday 6th May 2020

L.O. I am learning to find fractions of amounts (1).

If we want to find $\frac{1}{2}$ of 16, what calculation should we do?

$$16 \div 2 = 8$$

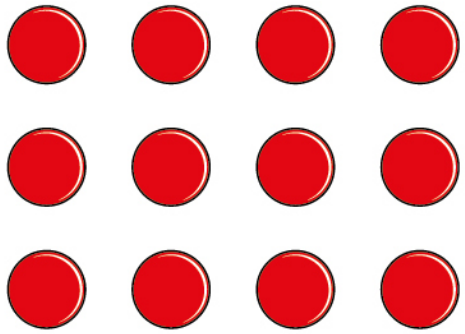
So $\frac{1}{2}$ of 16 = 8

Key vocabulary: whole part fraction divide out of group set numerator denominator

Wednesday 6th May 2020

L.O. I am learning to find fractions of amounts (1).

Here are some counters.



a) Circle $\frac{1}{4}$ of the counters.

b) How many counters did you circle? ☐

c) What is $\frac{1}{4}$ of 12? ☐

Example:

$\frac{1}{4}$ = divide by 4

The counters are already in 4 columns, we need to circle one column for the first answer.

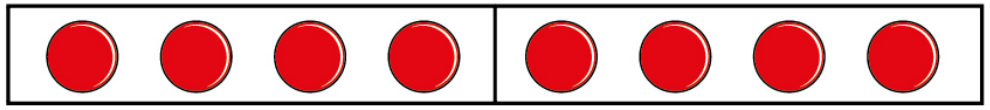
Key vocabulary: whole part fraction divide out of group set **numerator denominator**

Let's try solve these questions using what we have learnt:

1.

Draw counters in the bar models to help you complete each number sentence. The first one has been done for you.

a) $\frac{1}{2}$ of 8 = 4



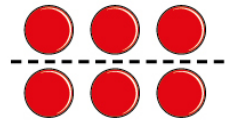
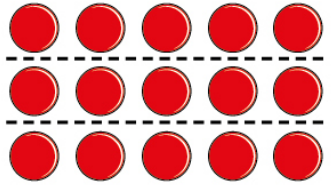
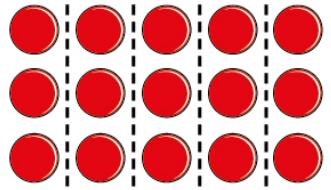
b) $\frac{1}{2}$ of 16 = ☐

c) $\frac{1}{4}$ of 8 = ☐

d) $\frac{1}{4}$ of 16 = ☐

Keep going, you're doing great!

2. Complete the table.

Fraction	Division	Example	Drawing
one half	divide by 2	$\frac{1}{2}$ of 6 = 3	
one quarter		$\frac{1}{4}$ of 8 = 2	
			
			

Almost there ☺

3. a) $\frac{1}{2}$ of 12

b) $\frac{1}{5}$ of 45

c) $\frac{1}{3}$ of 21

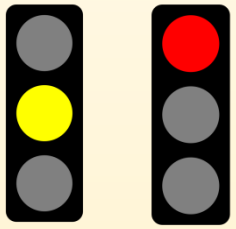
d) $\frac{1}{4}$ of 32

e) $\frac{1}{8}$ of 40

f) $\frac{1}{10}$ of 120

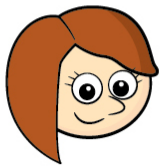
The denominator will tell you what to divide by.

Count in multiples of that number till you reach the whole number.



This is an orange/red question. If it is a bit tricky, skip to the challenges.

4. Rosie, Amir and Alex each find a fraction of 24 using counters.

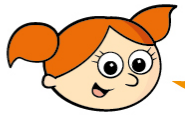


I have $\frac{1}{6}$ of 24

Rosie

I have $\frac{1}{3}$ of 24

Amir



I have 6 counters.

Alex

a) Order the children from least counters to most counters.

_____ _____ _____

least counters most counters

b) What fraction of the counters does Alex have? ☐

c) Rosie and Amir put their counters together.

Write their total number of counters as a fraction of 24

Challenges:

$\frac{1}{6}$ of 12 $\frac{1}{3}$ of 12 $\frac{1}{3}$ of 18 $\frac{1}{9}$ of 18

Which amount is greater? Tick your answer.

$\frac{1}{3}$ of £75 or $\frac{1}{5}$ of £75

Show your workings.

Whitney has 12 chocolates.

On Friday, she ate $\frac{1}{4}$ of her chocolates and gave one to her mum.

On Saturday, she ate $\frac{1}{2}$ of her remaining chocolates, and gave one to her brother.

On Sunday, she ate $\frac{1}{3}$ of her remaining chocolates.

How many chocolates does Whitney have left?

I will check your work for you.

Send me your answers on Google Classroom to check.

Or you can write your answers down and send me a photo on Google Classroom, whatever is easier ☺

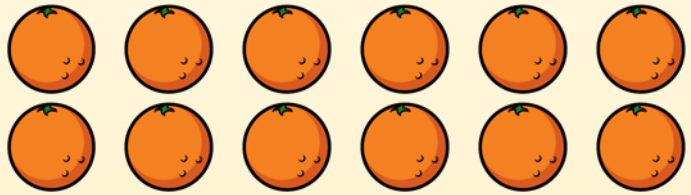
Thursday 7th May 2020

L.O. I am learning to find fractions of amounts (2).

Key vocabulary: whole part fraction divide out of group set **numerator denominator**

07.05.20
Mental Maths

1) Find $\frac{1}{3}$ of the number of oranges.

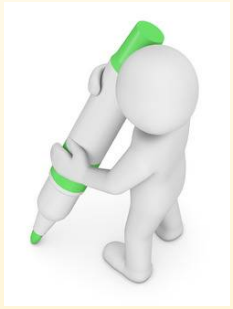


2) Write seven tenths as a decimal.

3) Add 3 m and 20 cm to 2 m and 55 cm.

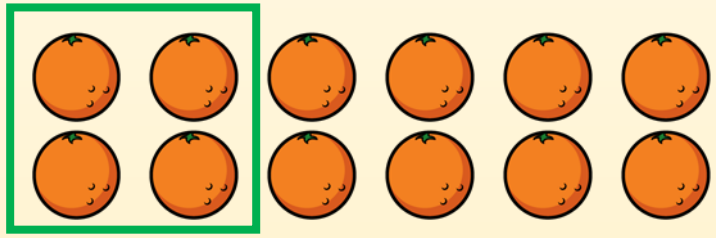
4) Find the sum of 462 and 229

07.05.20
Mental Maths



Check your answers!

1) Find $\frac{1}{3}$ of the number of oranges. = 4 oranges



2) Write seven tenths as a decimal. = 0.7

3) Add 3 m and 20 cm to 2 m and 55 cm. = 5m and 75cm

4) Find the sum of 462 and 229 = 691

Thursday 7th May 2020

L.O. I am learning to find fractions of amounts (2).

Let's Review

If we want to find a fraction of an amount, you divide by the denominator.

If we wanted to find $\frac{1}{2}$ of 20 what calculation should we do?

20 ÷ 2 = 10

So $\frac{1}{2}$ of 20 = 10

Key vocabulary: whole part fraction divide out of group set **numerator denominator**

Thursday 7th May 2020

L.O. I am learning to find fractions of amounts (2).

Today we are going to find fractions of amounts again, but this time the numerator will be more than 1.

Example: What is $\frac{3}{4}$ of 16?

Watch this video which explains the steps to solve this problem and others:

https://www.youtube.com/watch?v=E2QvVicQcMo

Key vocabulary: whole part fraction divide out of group set **numerator denominator**

Thursday 7th May 2020

L.O. I am learning to find fractions of amounts (2).

Using what you have learnt from that video, can you work out, **what is $\frac{2}{5}$ of 15?**

Remember:

1. Divide by the bottom (denominator)
2. Times by the top (numerator)

$\frac{2}{5}$ of 15

$\frac{1}{5}$ of 15 = 3

2 x 3 = 6

Key vocabulary: whole part fraction divide out of group set **numerator denominator**

Thursday 7th May 2020

L.O. I am learning to find fractions of amounts (2).

Using what you have learnt from that video,

Can you now work out, what is $\frac{4}{10}$ of 100?

Remember:

1. Divide by the bottom (denominator)
2. Times by the top (numerator)

$\frac{4}{10}$ of 100

$\frac{1}{10}$ of 100 = ...

..... x 4 = ...

Key vocabulary: whole part fraction divide out of group set numerator denominator

Let's try solve these questions using what we have learnt:

1. Draw counters in the bar models to help you complete each number sentence.

a) $\frac{2}{3}$ of 15 = ☐

b) $\frac{3}{4}$ of 8 = ☐

c) $\frac{2}{5}$ of 20 = ☐

2. What is $\frac{6}{6}$ of 18? ☐

Keep going, you're doing great!

3. Match the questions and answers.

$\frac{2}{3}$ of 9 = ?	9
$\frac{3}{5}$ of 15 = ?	6
$\frac{5}{6}$ of 12 = ?	15
$\frac{3}{4}$ of 20 = ?	10

Almost there ☺

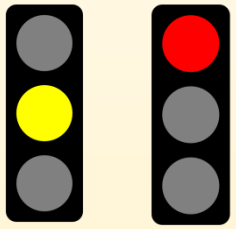
4.

Tommy: To find $\frac{3}{4}$ of 12, you divide by 4 and then multiply the answer by 3

Dexter: To find $\frac{3}{4}$ of 12, you divide by 3 and then multiply the answer by 4

Who is correct? _____

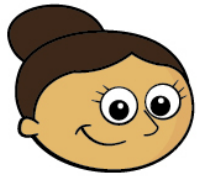
How do you know? Show your working.



This is an orange/red question. If it is a bit tricky, skip to the challenges.

5.

Dora, Whitney and Ron each find a fraction of 24 using counters.



I have $\frac{5}{6}$ of 24

Dora

I have $\frac{2}{3}$ of 24

Whitney

I have 18 counters.

Ron

a) Who has the most counters? Show your workings.

b) How many more counters does Dora have than Whitney?

Challenges:

$\frac{2}{3}$ of 36 $\frac{2}{3}$ of 45 $\frac{3}{5}$ of 65

Write fractions to make the statements correct.

☐ of 36 < 18

☐ of 36 = 18

☐ of 36 > 18

Ron has £28

On Friday, he spent $\frac{1}{4}$ of his money.

On Saturday, he spent $\frac{2}{3}$ of his remaining money and gave £2 to his sister.

On Sunday, he spent $\frac{1}{5}$ of his remaining money.

How much money does Ron have left?

What fraction of his original amount is this?

I will check your work for you.

Send me your answers on Google Classroom to check.

Or you can write your answers down and send me a photo on Google Classroom, whatever is easier ☺