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

Write the answers down.

New symbols to look out for:

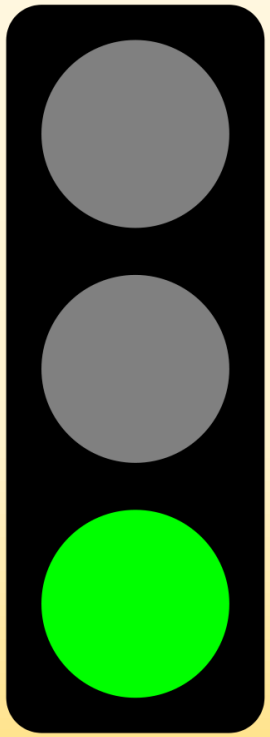
It's your turn to be the teacher!

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

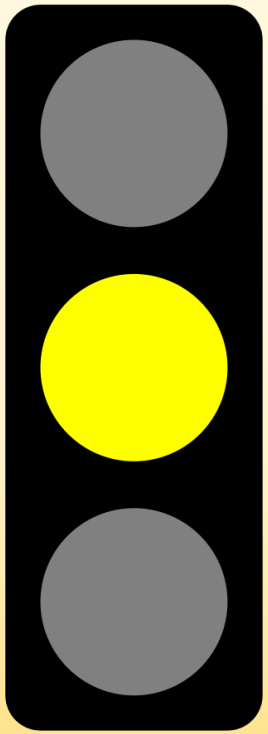
I will check your work for you.

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 ☺

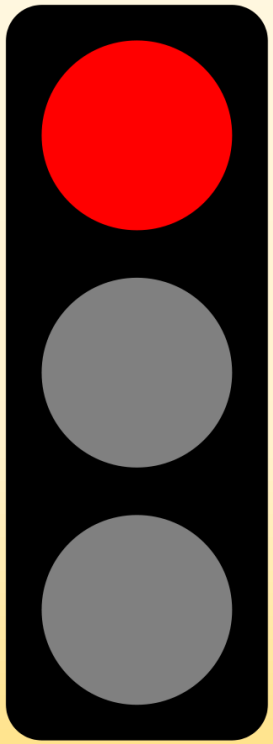
When choosing which questions to answer, use this as a guide to help.



Easier



Medium



Harder

Monday 27th April 2020

L.O. I am learning about unit and non-unit fractions.

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

27.04.20
Mental Maths

1) Calculate the perimeter of the square.

2) Add 12 cm and 45 cm.

3) What unit of measurement is best to measure the length of your thumb?

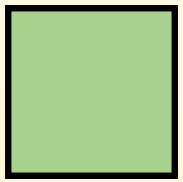
centimetres millimetres metres

4) Write 17 using tally marks.

27.04.20
Mental Maths

Check your answers!

1) Calculate the perimeter of the square.

6 cm  = 24cm

2) Add 12 cm and 45 cm. =57cm

3) What unit of measurement is best to measure the length of your thumb?

centimetres millimetres metres

4) Write 17 using tally marks. 𝍸 𝍸 𝍸 ||

Monday 27th April 2020

L.O. I am learning about unit and non-unit fractions.

What is a fraction?

A fraction is a number that is **part of a whole.**

https://www.youtube.com/watch?v=n0FZhQ_GkKw

$$\frac{1}{6}$$

The **top number** is called the **numerator**.

The **bottom number** is called the **denominator**.

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

Monday 27th April 2020

L.O. I am learning about unit and non-unit fractions.

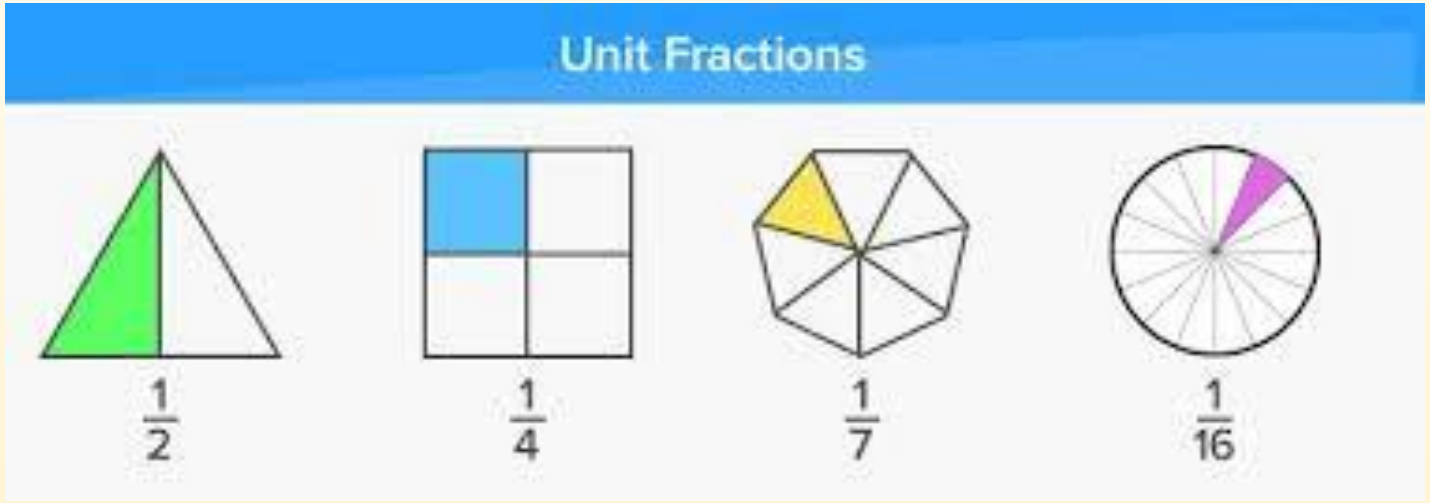
Unit fractions:

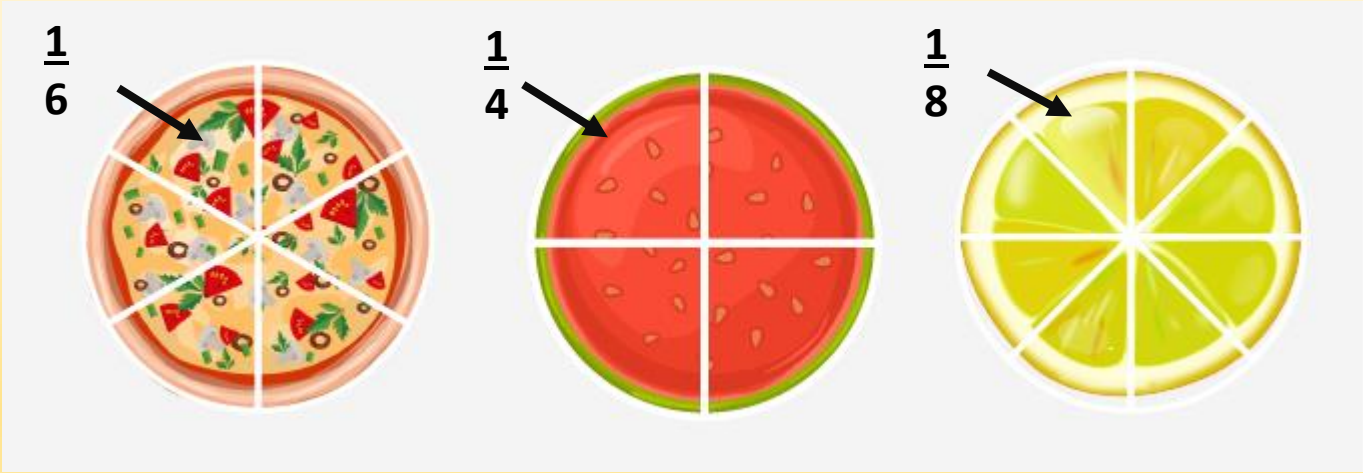
A **unit fraction** is a **fraction** where the numerator is 1 and the denominator is a whole number.

$$\frac{1}{6}$$

numerator

denominator





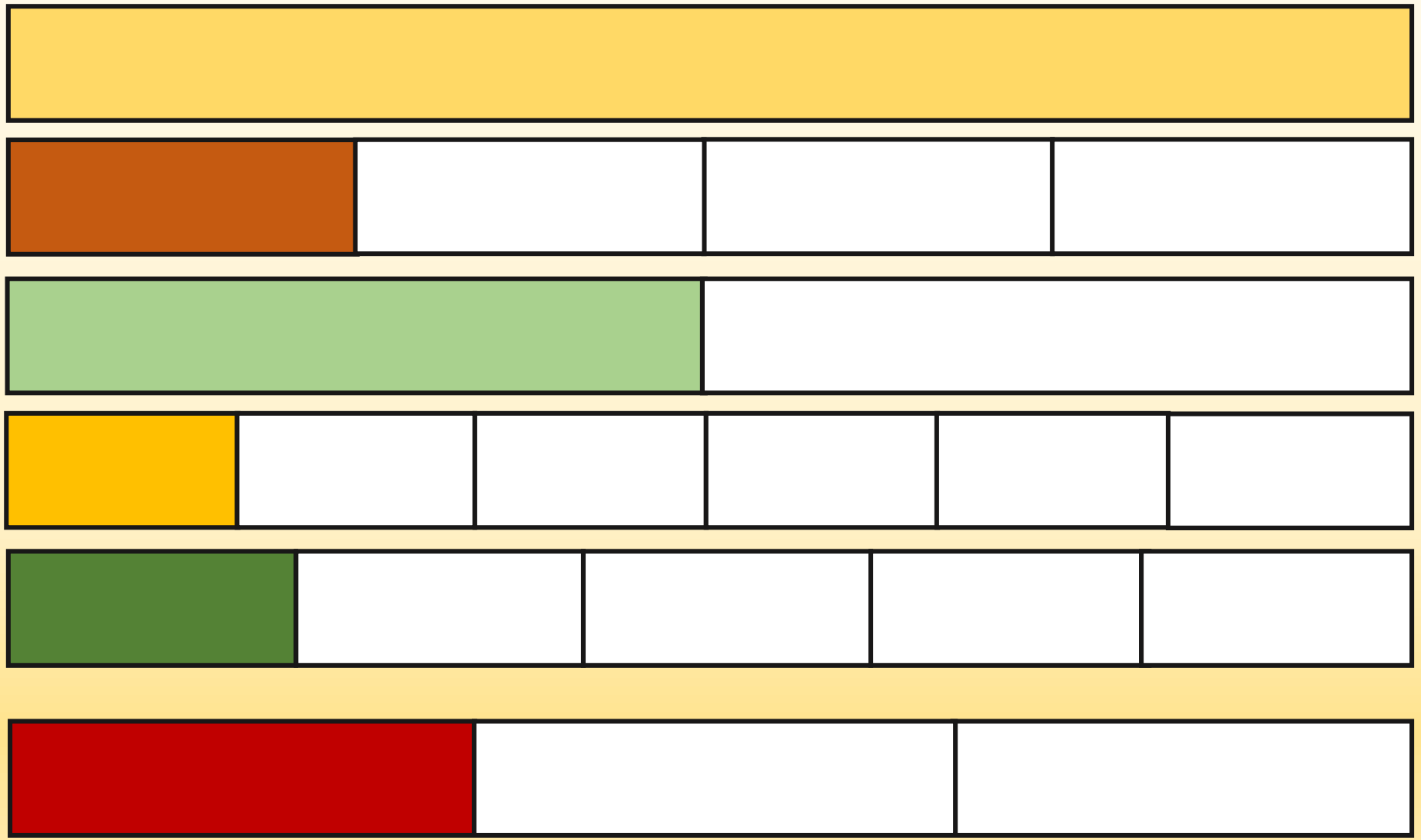
Key vocabulary: whole part unit fraction divide out of **numerator** **denominator**

What image do these unit fractions belong beside?

Choose one fraction to go next to each image. Look carefully at how many boxes there are all together.

$\frac{1}{5}$ $\frac{1}{3}$ $\frac{1}{2}$ $\frac{1}{6}$

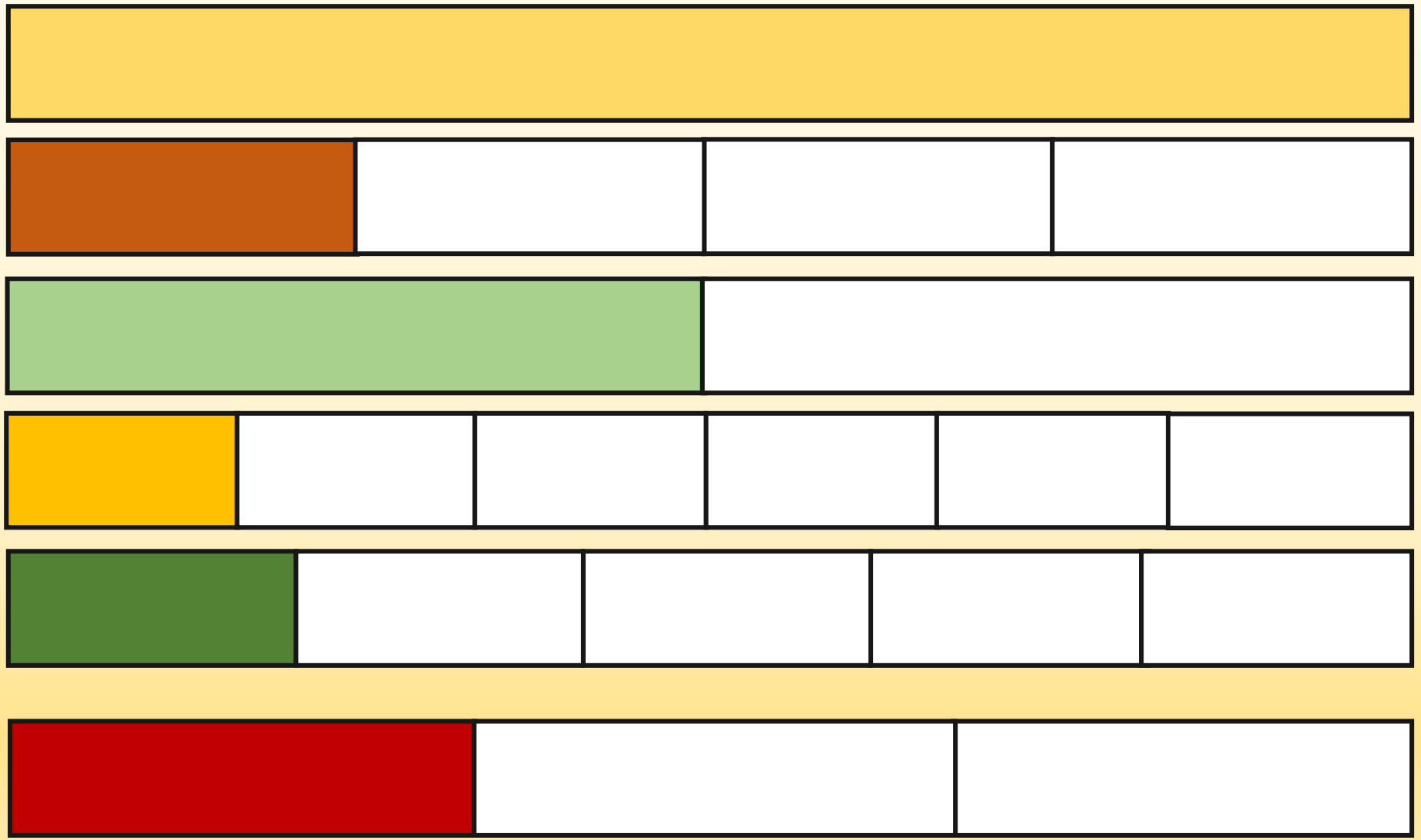
These two have been done for you:



1 or whole

$\frac{1}{4}$

Check your answers!



1 or whole

$\frac{1}{4}$

$\frac{1}{2}$

$\frac{1}{6}$

$\frac{1}{5}$

$\frac{1}{3}$

Monday 27th April 2020

L.O. I am learning about unit and non-unit fractions.

https://vimeo.com/274365585

Non-unit fractions:

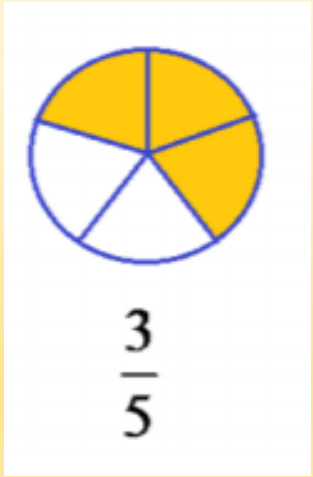
A non-**unit fraction** is a **fraction** where the numerator is **greater than 1** and the denominator is a whole number.

$$\frac{4}{6}$$

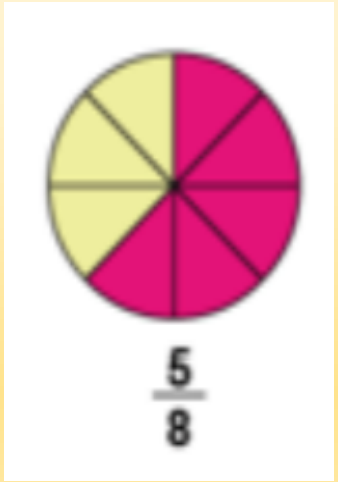
numerator

denominator

3 parts out of 4 are left.
So, 3/4 of the watermelon is left.



$\frac{3}{5}$



$\frac{5}{8}$

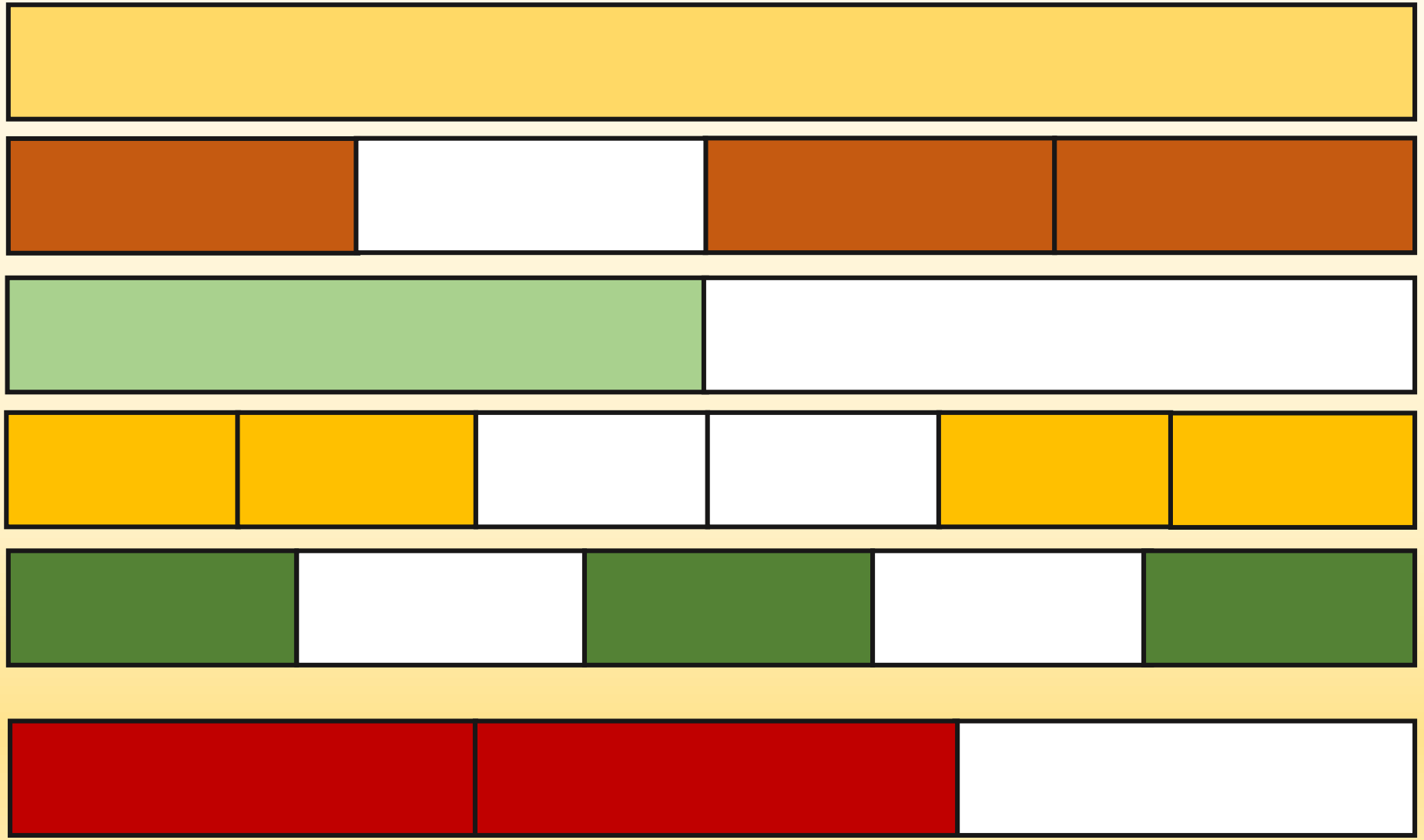
Key vocabulary: whole part unit fraction divide out of **numerator** **denominator**

What image do these unit fractions belong beside?

Choose one fraction to go next to each image. Look carefully at how many boxes there are all together.

$\frac{3}{5}$ $\frac{2}{3}$ $\frac{1}{2}$ $\frac{4}{6}$

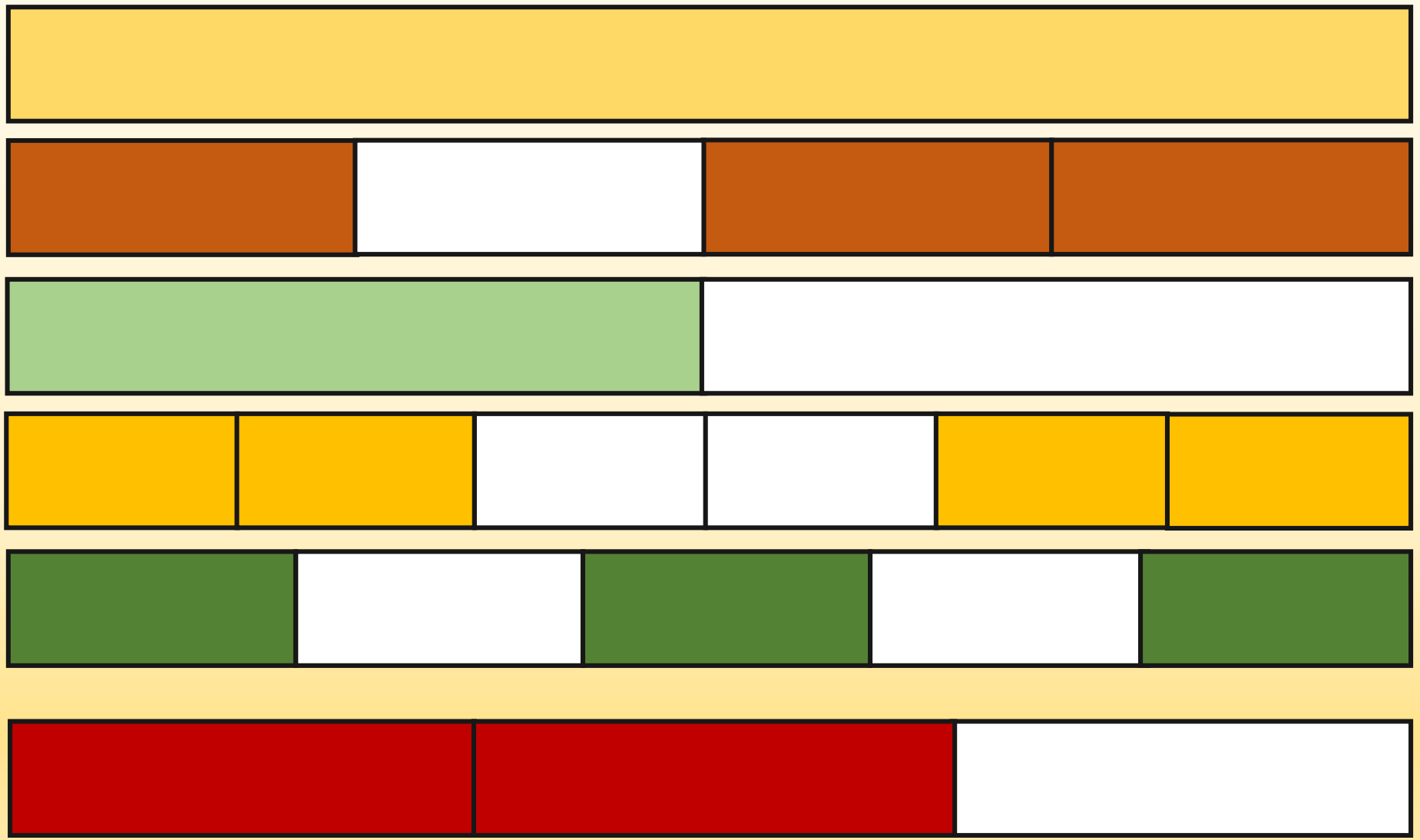
These two have been done for you:



1 or whole

$\frac{3}{4}$

Check your answers!



1 or whole

$\frac{3}{4}$

$\frac{1}{2}$

$\frac{4}{6}$

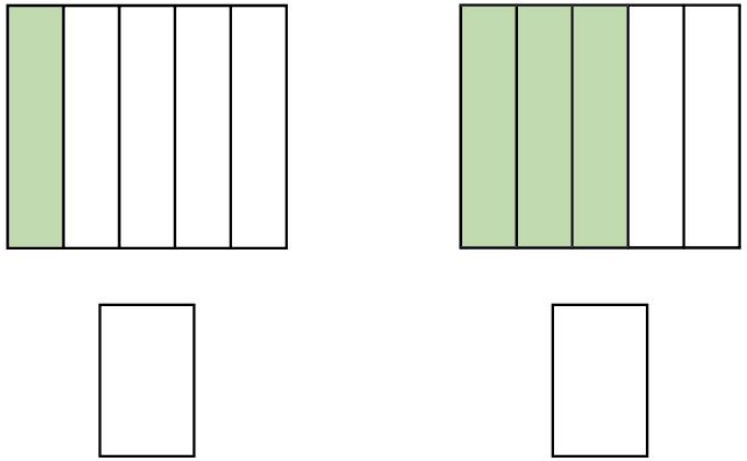
$\frac{3}{5}$

$\frac{2}{3}$

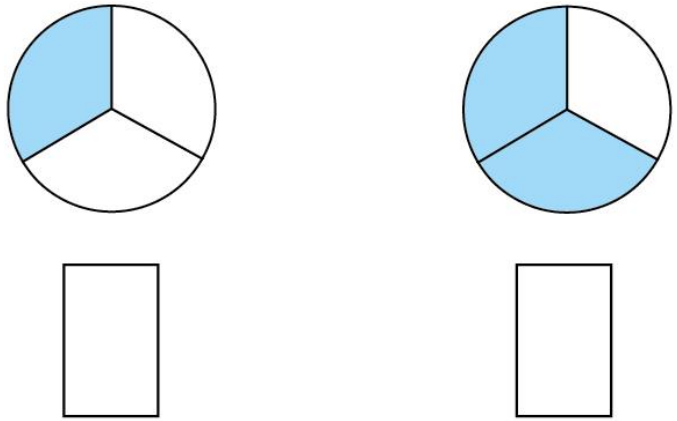
Activity: Write down which fraction of each shape is coloured in.

What fraction of each shape is shaded?

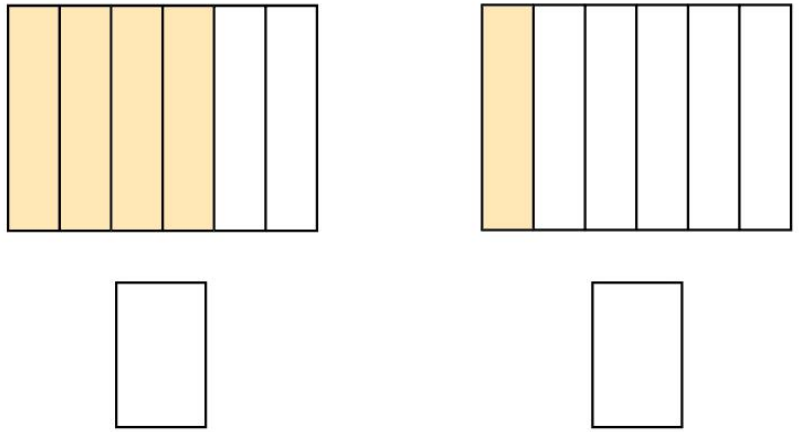
a)



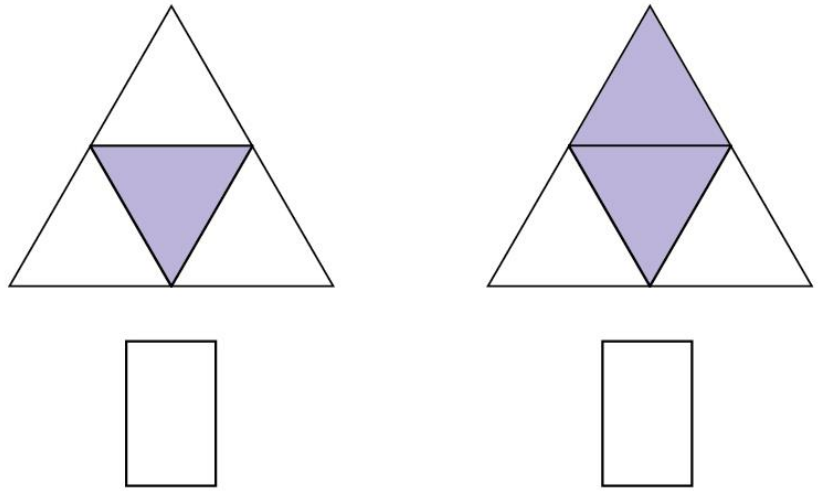
b)



c)



d)

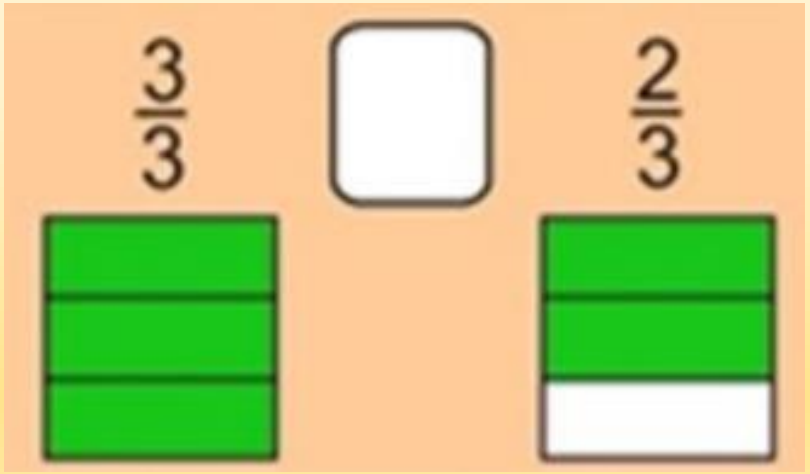


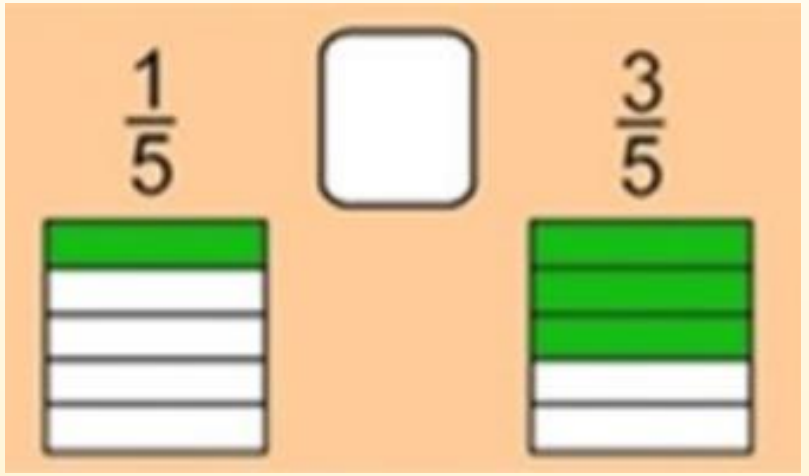
Key vocabulary: whole part unit fraction divide out of **numerator** **denominator**

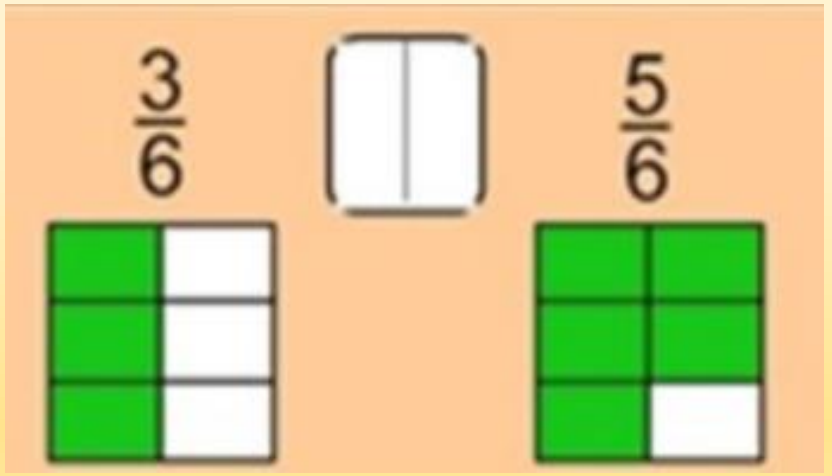
Use the correct sign between these fractions:

< > =

You can use the same symbol twice.

1. 

2. 

3. 

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

4. Complete the sentences.

An example of a unit fraction is ☐

The numerator is always ☐

An example of a non-unit fraction is ☐

The numerator is always greater than ☐

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

Challenge:

One whole = $\frac{1}{1} = \frac{2}{2} = \frac{3}{3} = \frac{4}{4}$

True or False?

$\frac{1}{3}$ of the shape is shaded.

Explain how you know.

Sort the fractions into the table.

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

	Fractions equal to one whole	Fractions less than one whole
Unit fractions		
Non-unit fractions		

Are there any boxes in the table empty? Why?

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

Well done!

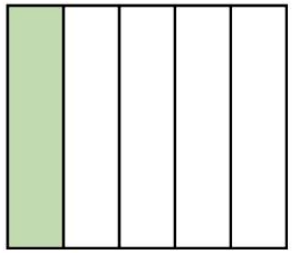
Now it's time to check your work.

Check your answers.

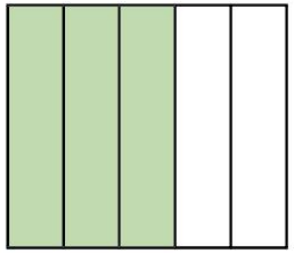
If you make a mistake, try and work out where it went wrong.

What fraction of each shape is shaded?

a)

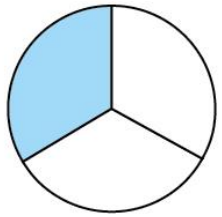


$\frac{1}{5}$

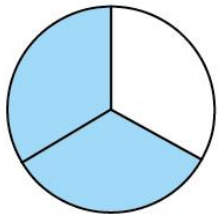


$\frac{3}{5}$

b)

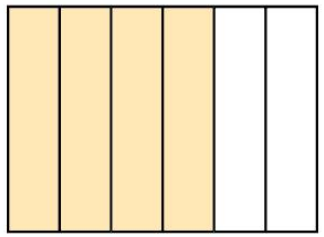


$\frac{1}{3}$

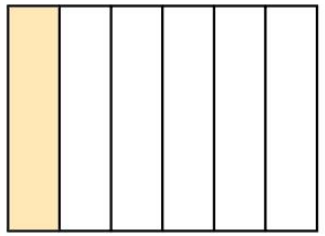


$\frac{2}{3}$

c)

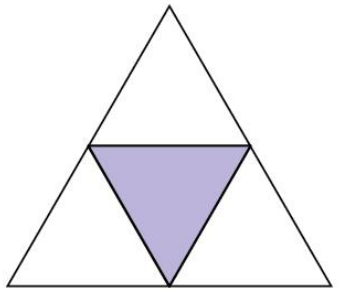


$\frac{4}{6}$

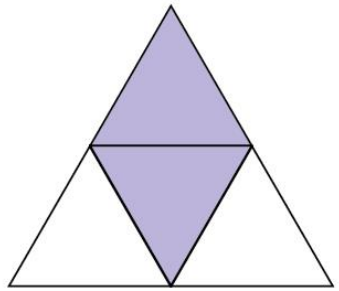


$\frac{1}{6}$

d)



$\frac{1}{4}$



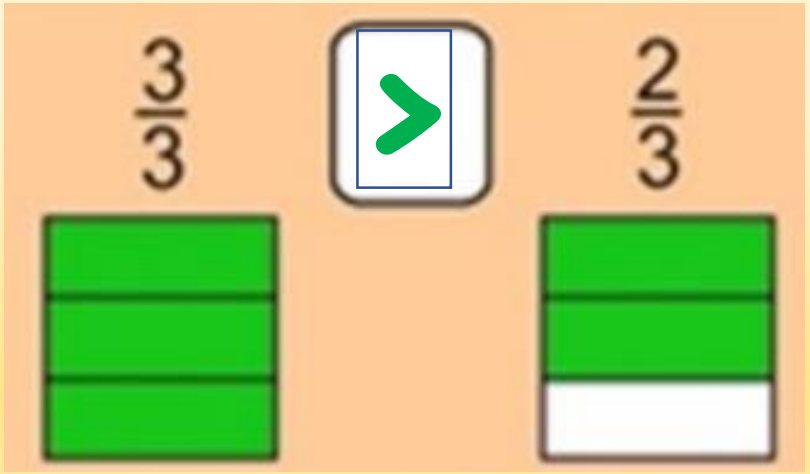
$\frac{2}{4}$

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

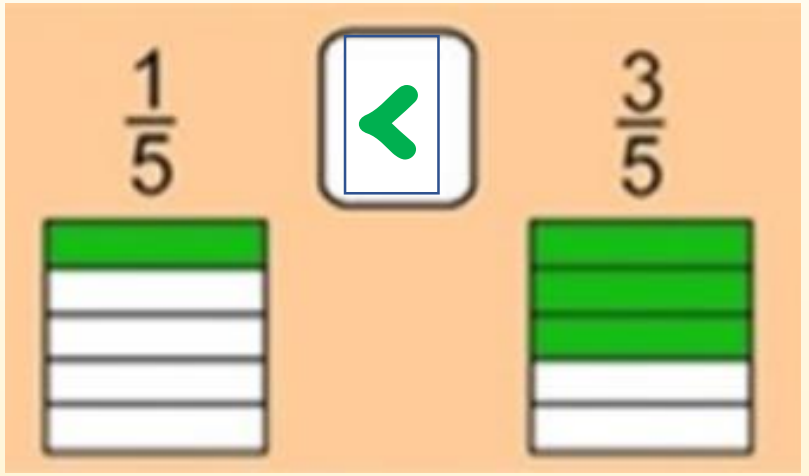
Check your answers.

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

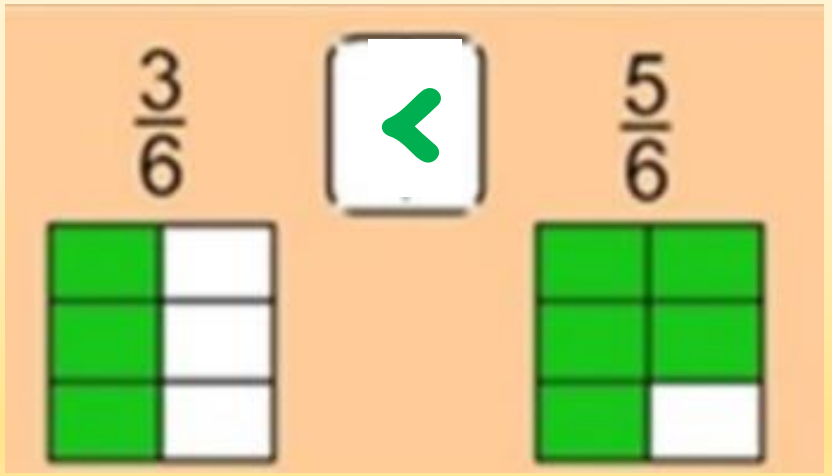
1.



2.



3.



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

Check your answers!

4. Complete the sentences.

An example of a unit fraction is $\frac{1}{6}$

The denominator could be any number.

The numerator is always 1

An example of a non-unit fraction is $\frac{2}{6}$

The numerator could be any number above one, which is less then the denominator

The numerator is always greater than 1

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

Check your answers.

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

True or False?

$\frac{1}{3}$ of the shape is shaded.

Explain how you know.

False.

Reason: I counted how many parts the triangle was split into = 4.

1 out of 4 pieces is shaded so the answer is $\frac{1}{4}$ not $\frac{1}{3}$

	Fractions equal to one whole	Fractions less than one whole
Unit fractions		$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$
Non-unit fractions	$\frac{2}{2}$ $\frac{4}{4}$	$\frac{3}{4}$ $\frac{3}{5}$ $\frac{2}{5}$

There are no unit-fractions that are equal to one whole other than $\frac{1}{1}$ but this isn't on our list.

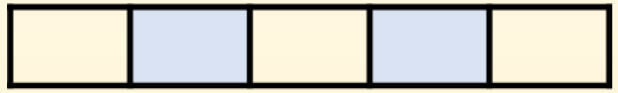
Tuesday 28th April 2020

L.O. I am learning about unit and non-unit fractions.

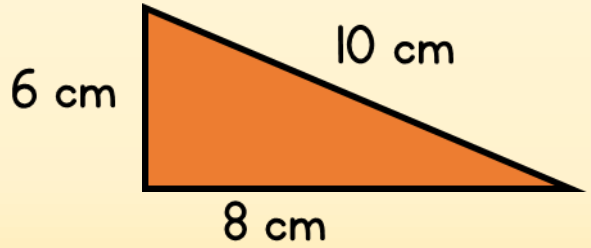
Key vocabulary: whole part unit fraction divide out of **numerator** **denominator**

28.04.20
Mental Maths

1) What fraction of the shape is shaded?



2) Work out the perimeter of the triangle.



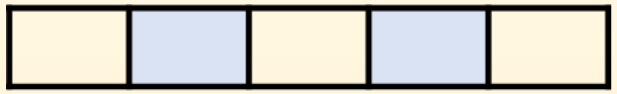
3) Complete: _____ millimetres = 7 centimetres

4) What is 28 divided by 4?

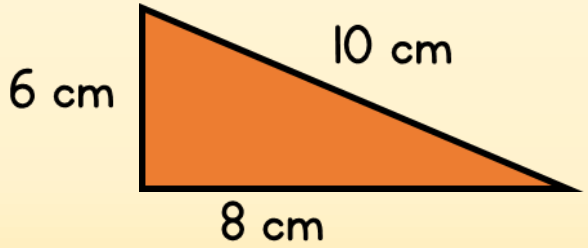
28.04.20
Mental Maths

Check your answers!

1) What fraction of the shape is shaded? = $\frac{2}{5}$



2) Work out the perimeter of the triangle.



= 24cm

3) Complete: 70 millimetres = 7 centimetres

4) What is 28 divided by 4? = 7

Tuesday 28th April 2020

L.O. I am learning about unit and non-unit fractions.

Let's Review

Unit fractions:

A **unit fraction** is a **fraction** where the numerator is 1 and the denominator is a whole number.

$\frac{1}{6}$

numerator

denominator

Non-unit fractions:

A non- **unit fraction** is a **fraction** where the numerator is **greater than 1** and the denominator is a whole number.

$\frac{4}{6}$

numerator

denominator

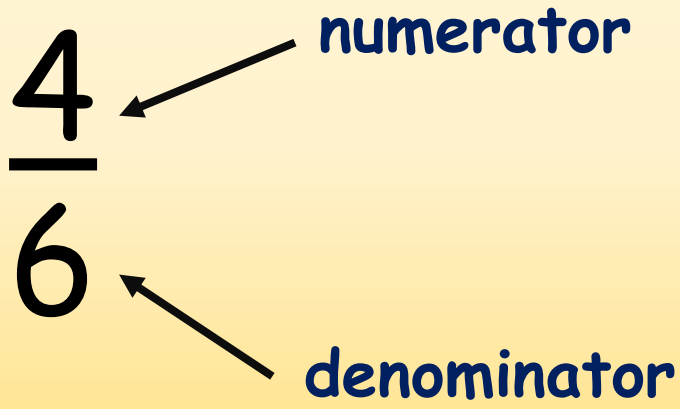
Key vocabulary: whole part unit fraction divide out of **numerator** **denominator**

Tuesday 28th April 2020

L.O. I am learning about unit and non-unit fractions.

Today we are going to look more at non-unit fractions

A non- **unit fraction** is a **fraction** where the numerator is **greater than 1** and the denominator is a whole number.



Watch this clip of non-unit fractions using pictures/objects.

https://www.youtube.com/watch?v=lTce7f6KGE0

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

Tuesday 28th April 2020

L.O. I am learning about unit and non-unit fractions.

Circle $\frac{1}{5}$ of the beanbags.

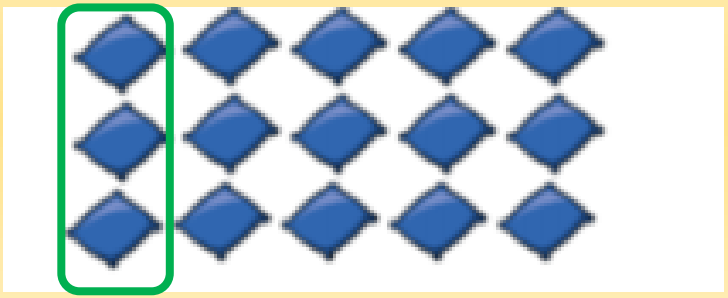
Circle $\frac{3}{5}$ of the beanbags.

What's the same and what's different about $\frac{1}{5}$ and $\frac{3}{5}$?

$\frac{1}{5}$

1 out of 5 beanbags are chosen.

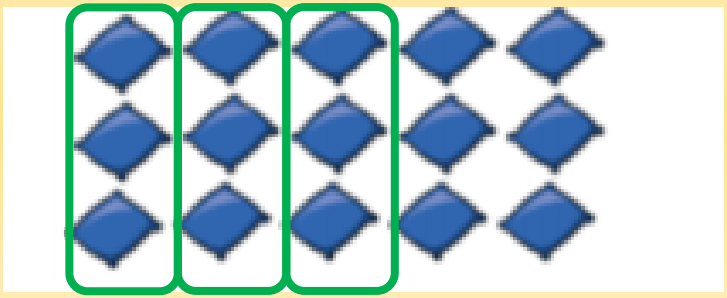
1 2 3 4 5



$\frac{3}{5}$

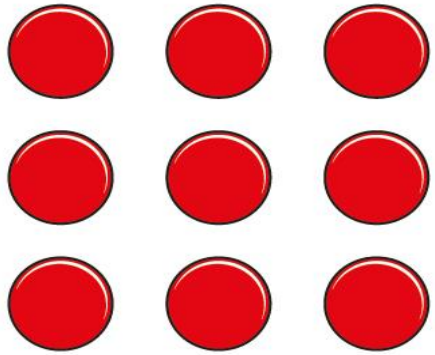
3 out of 5 beanbags are chosen.

1 2 3 4 5

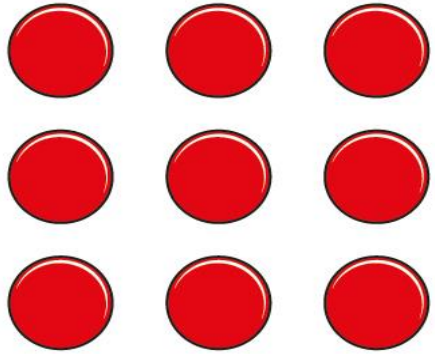


Let's try solve these using what we have learnt:

a) Circle $\frac{1}{3}$ of the counters.



b) Circle $\frac{2}{3}$ of the counters.



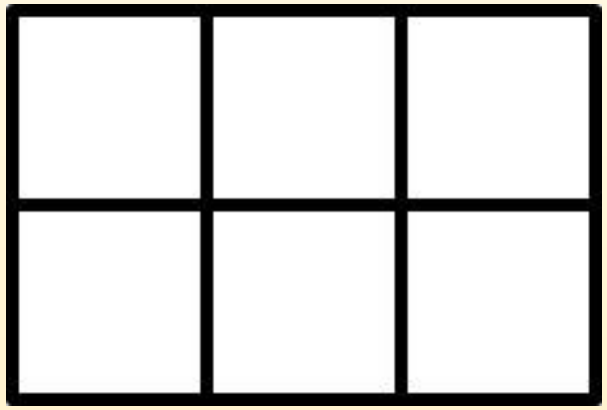
c) Circle $\frac{1}{6}$ of the counters

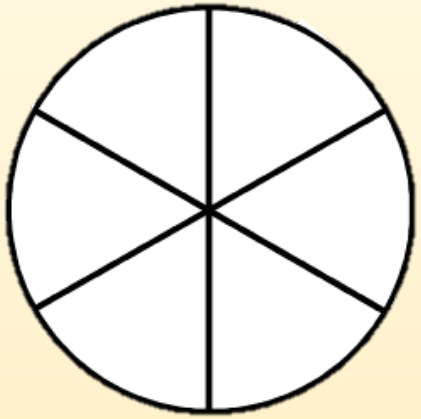
c) Circle $\frac{4}{6}$ of the counters

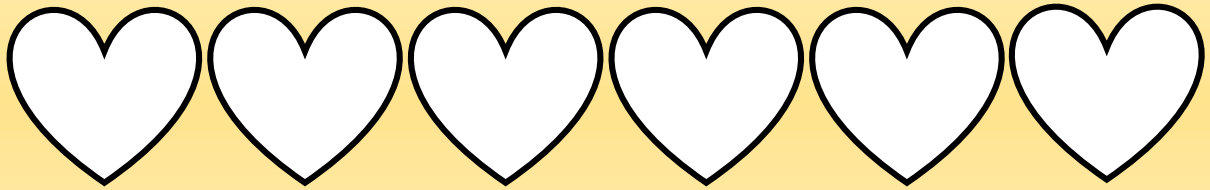
What is the same and what is different about your answers?

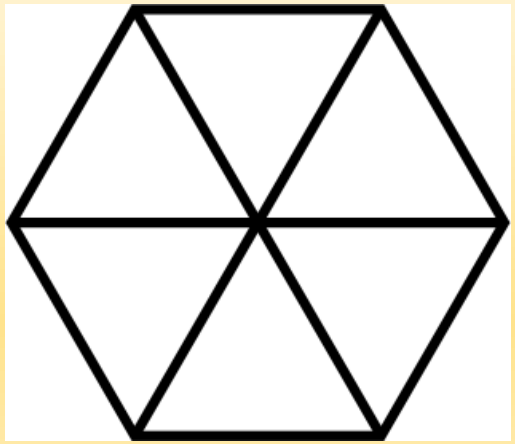
Let's try drawing and colouring in the fractions

Colour in $\frac{4}{6}$ of each of these shapes.



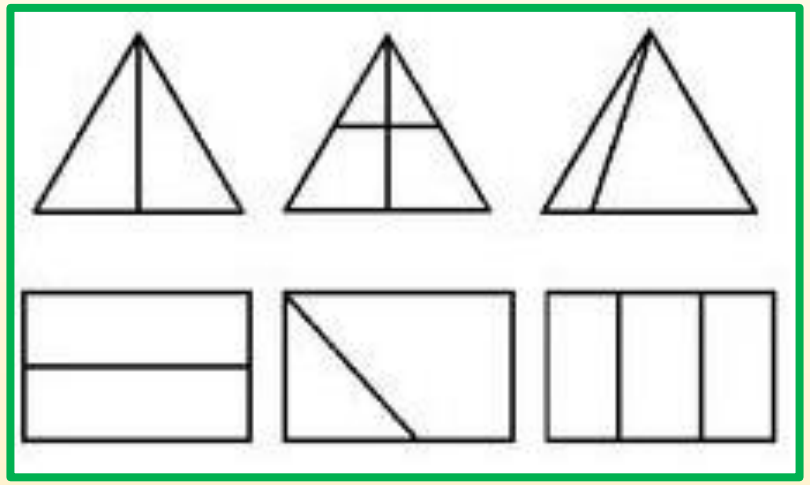




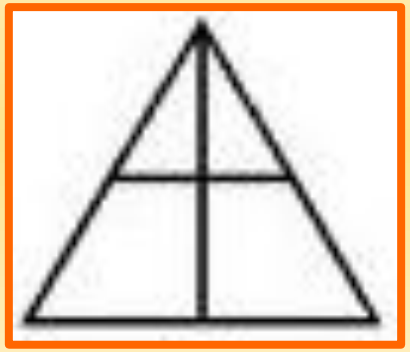


Challenges:

Which shapes are cut in to equal fractions?

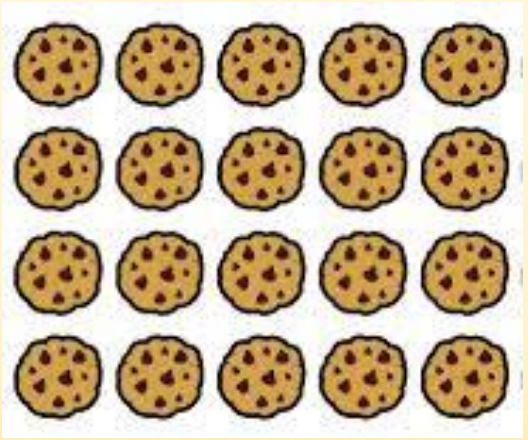


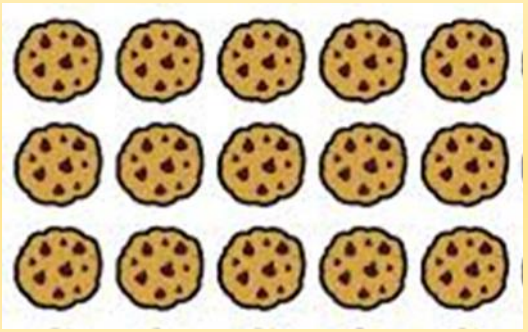
This is four quarters. True or False?
Explain your answer



$\frac{1}{5}$ of 20 is greater than $\frac{2}{5}$ of 15

True or False?
Use the diagrams to prove/explain your answer





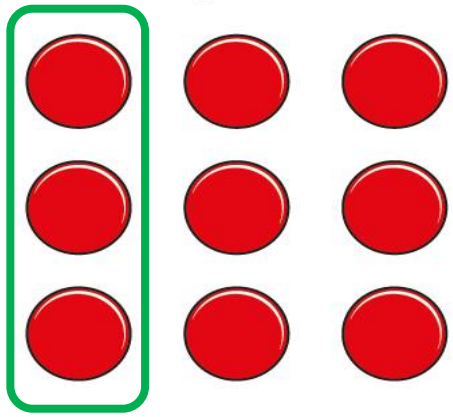
Well done!

Now it's time to check your work.

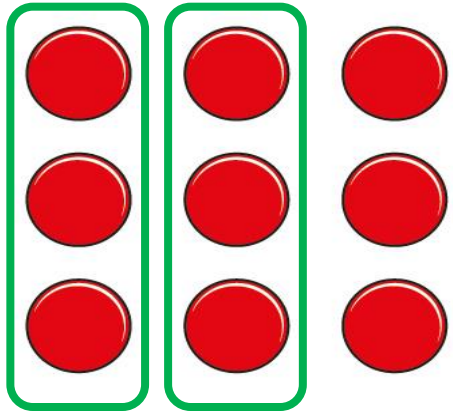
Check your answers.

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

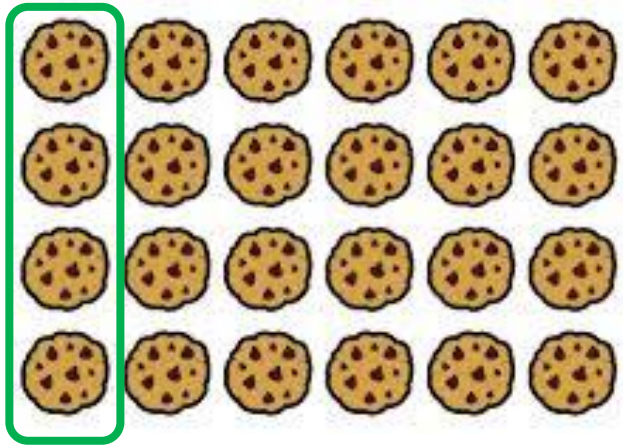
a) Circle $\frac{1}{3}$ of the counters.



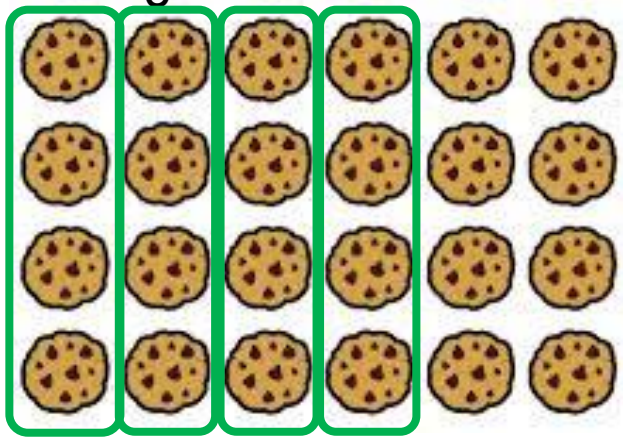
b) Circle $\frac{2}{3}$ of the counters.



c) Circle $\frac{1}{6}$ of the counters



c) Circle $\frac{4}{6}$ of the counters

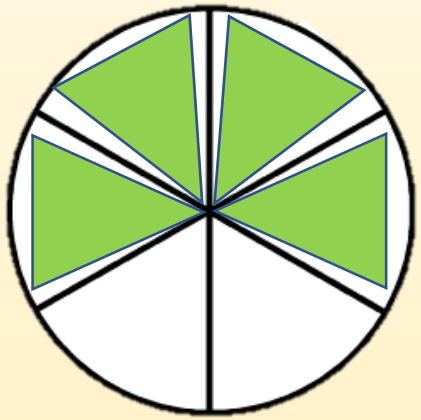


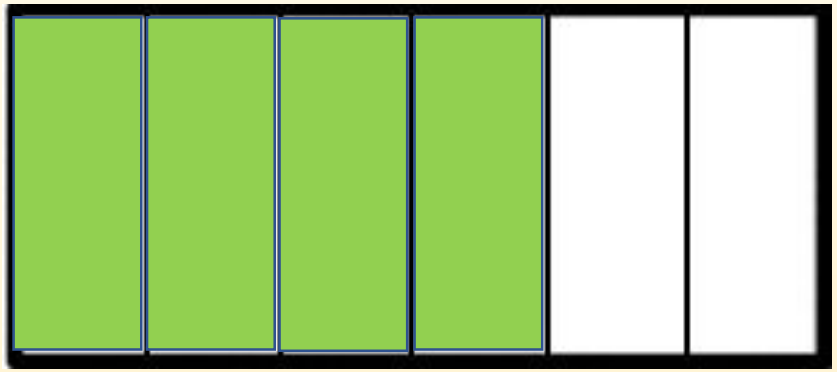
What is the same and what is different about your answers?

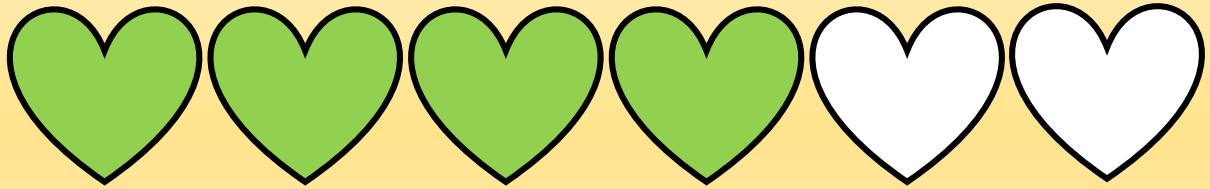
The amount of groups are the same but how many groups are circled is different.

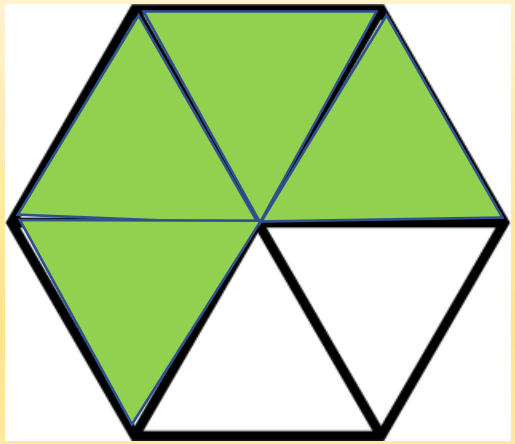
Check your answers.

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





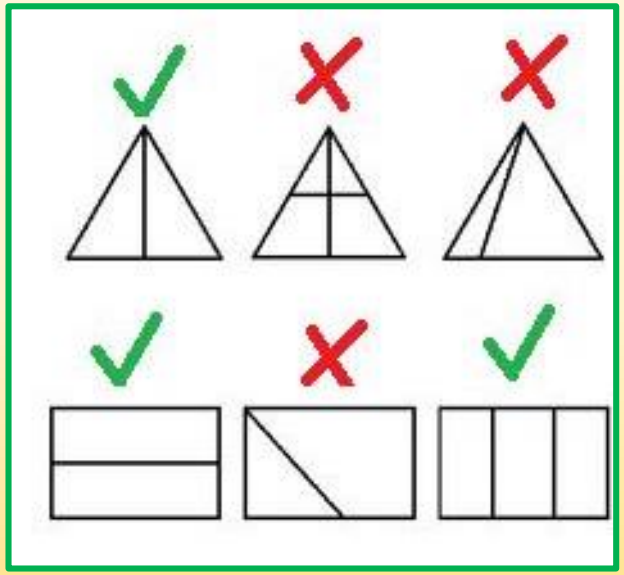




Check your answers.

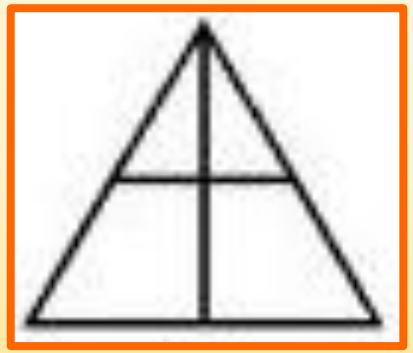
If you make a mistake, try and work out where it went wrong.

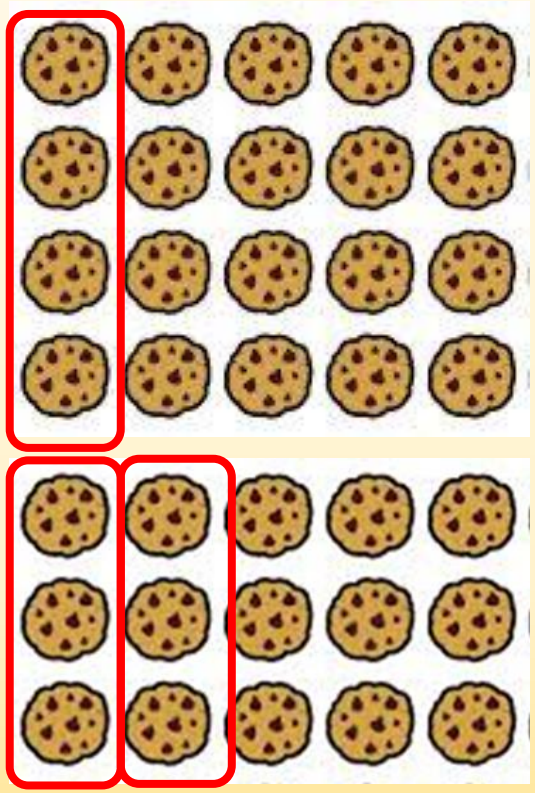
Which shapes are cut in to equal fractions?



False.

There are four parts but the are not equal.





False

$\frac{1}{5}$ of 20 = 4 which is less than $\frac{2}{5}$ of 15 = 6

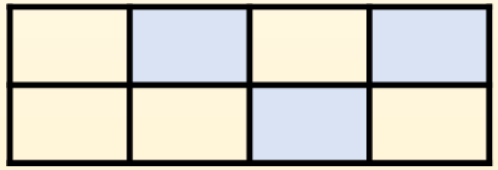
Wednesday 29th April 2020

LO . I am learning that fractions are part of a whole.

Key vocabulary: whole part fraction **numerator** **denominator** half third quarter fifth…

29.04.20
Mental Maths

1) What fraction of the shape is shaded?



2) Subtract 43 cm from 1 m.

3) Compare using $<$, $>$ or $=$

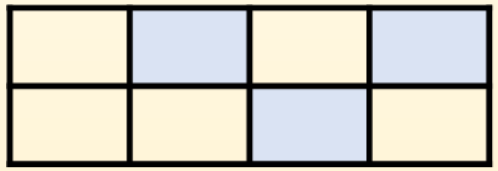
35 mm ◯ 10 cm

4) Add £3 and 45p to £2 and 54p.

29.04.20
Mental Maths

Check your answers!

1) What fraction of the shape is shaded? = $\frac{3}{8}$



2) Subtract 43 cm from 1 m. = 57cm

3) Compare using $<$, $>$ or $=$

35 mm $<$ 10 cm

4) Add £3 and 45p to £2 and 54p. = £5 and 99p

Wednesday 29th April 2020

LO . I am learning that fractions are part of a whole.

Here is one **whole apple**. It has been cut into _____.

Here is one **whole apple**. It has been cut into _____

Here is one **whole pizza**. It has been cut into _____.

Key vocabulary: whole part fraction **numerator** **denominator** half third quarter fifth…

Wednesday 29th April 2020

LO . I am learning that fractions are part of a whole.

Here is one **whole** **apple**. It has been cut into **two halves**.

$$\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1$$

Here is one **whole** **apple**. It has been cut into **four quarters**.

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{4}{4} = 1$$

Here is one **whole** **pizza**. It has been cut into **sixths**.

$$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{6}{6} = 1$$

Key vocabulary: whole part fraction **numerator** **denominator** half third quarter fifth…

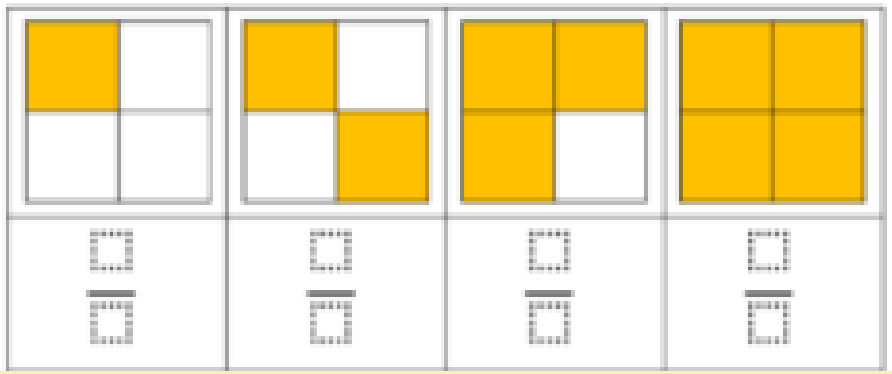
Wednesday 29th April 2020

LO . I am learning that fractions are part of a whole.

Let's go over this together first.

What fraction is represented? What fraction is equivalent to the whole?

Complete the missing information.



1 whole is the same as $\frac{\square}{\square}$

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

Key vocabulary: whole part fraction **numerator** **denominator** half third quarter fifth…

Wednesday 29th April 2020

LO . I am learning that fractions are part of a whole.

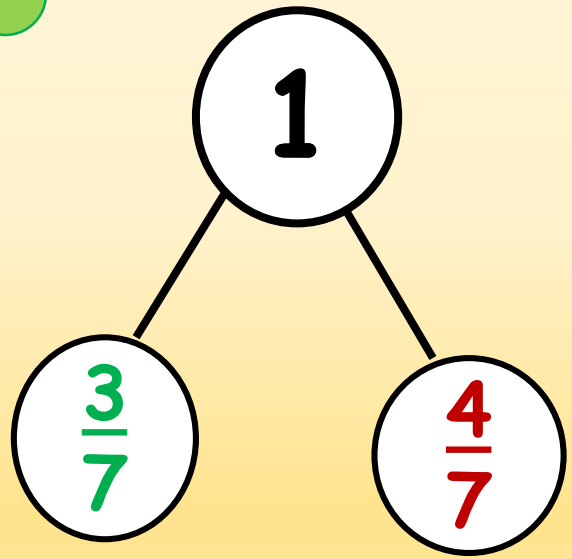
What fraction of the apples are green?
What fraction of the apples are red?
What fractions make the whole?
Could we represent the fractions of apples in a part whole model?

Can you explain how I worked out the fractions?

Complete the sentences to describe the apples.

$\frac{4}{7}$ are red

$\frac{3}{7}$ are green



Key vocabulary: whole part fraction **numerator** **denominator** half third quarter fifth…

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

1.

$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$ = 1 whole pizza

2.

$\frac{\square}{\square}$ orange and $\frac{\square}{\square}$ red = $\frac{\square}{\square}$ = 1 whole pack

3.

$\frac{\square}{\square}$ yellow and $\frac{\square}{\square}$ blue = $\frac{\square}{\square}$

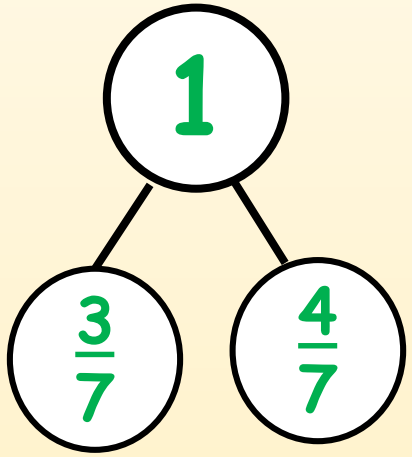
4.

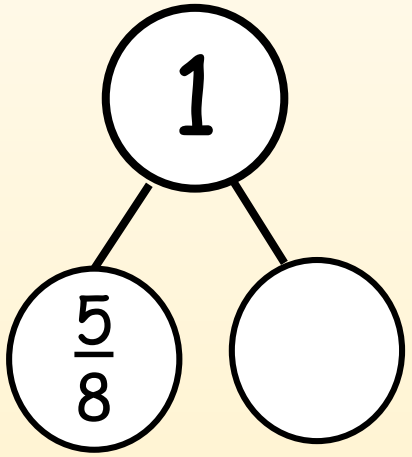
$\frac{\square}{\square}$ red + $\frac{\square}{\square}$ purple + $\frac{\square}{\square}$ yellow = $\frac{\square}{\square}$ = 1 whole pack

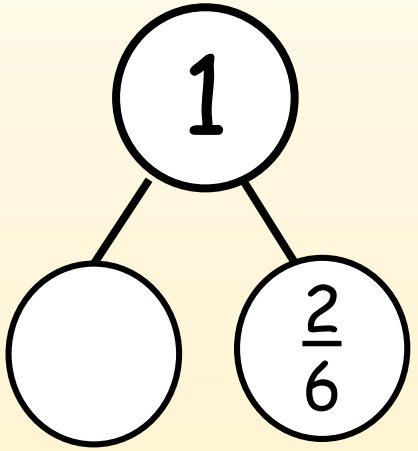
5. Mrs Neal at $\frac{3}{8}$ of a pizza. How much of the pizza was left?

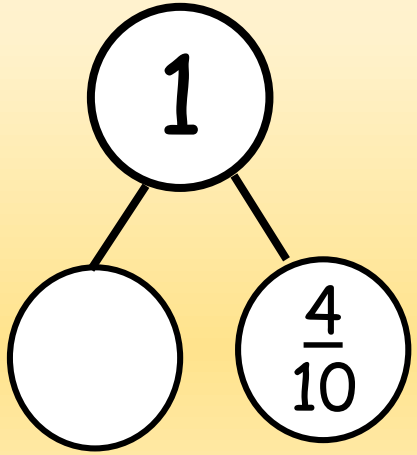
Now practise the part whole model:

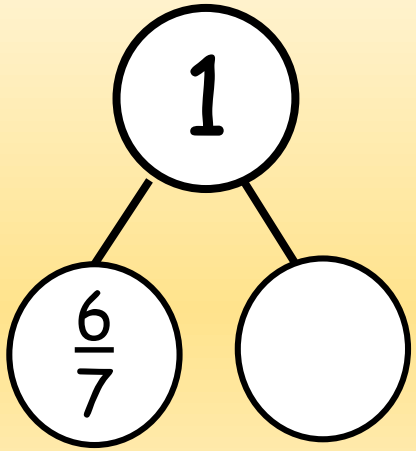
Example:











Challenges:

Here are $\frac{1}{3}$ of Jack's marbles.

Draw the rest of Jack's marbles in the bar model.

Teddy says,

I have one pizza cut into 6 equal pieces. I have eaten $\frac{6}{6}$ of the pizza.

Does Teddy have any pizza left?
Explain your answer.

Complete the sentence.

When a fraction is equal to a whole, the numerator and the denominator are _____

Use pictures to prove your answer.

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 30th April 2020

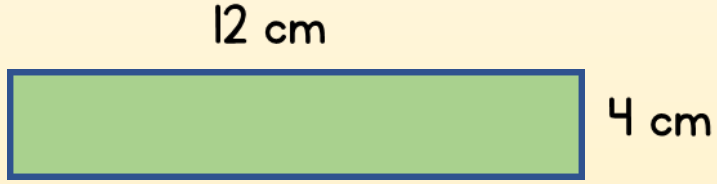
L.O. I am learning to recognise that tenths come from dividing an object into 10 equal parts.

Key vocabulary: whole part fraction **numerator** **denominator** half **tenth**

30.04.20
Mental Maths

1) How many fifths make one whole?

2) Find the perimeter of the rectangle.



3) How many metres are equal to 400 centimetres?

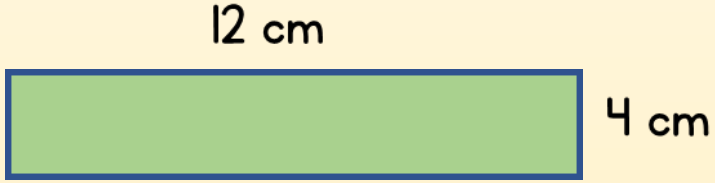
4) How much money is there altogether?

30.04.20
Mental Maths

Check your answers!

1) How many fifths make one whole? = 5

2) Find the perimeter of the rectangle. = 32cm



3) How many metres are equal to 400 centimetres? = 4m

4) How much money is there altogether?

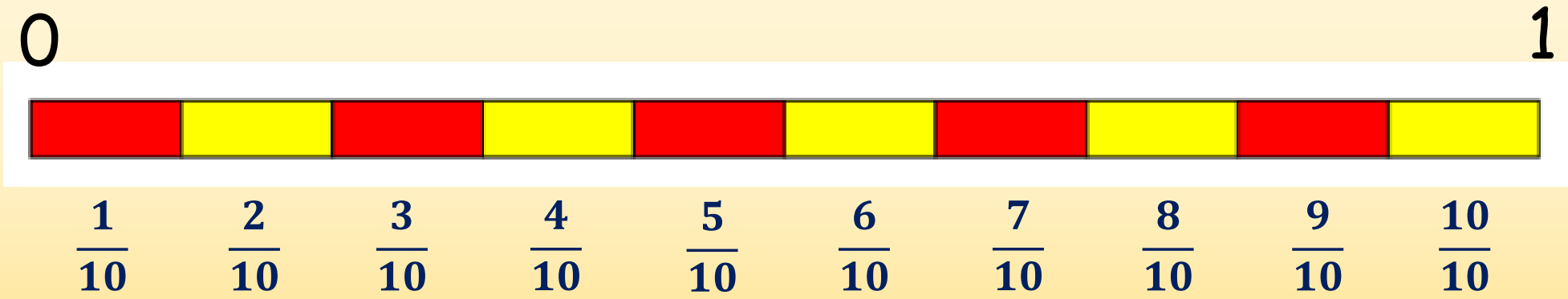
= £11 and 52p

Thursday 30th April 2020

L.O. I am learning to recognise that tenths come from dividing an object into 10 equal parts.

One whole divided in to **10 equal parts**, so each part is a **tenth**.

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



Key vocabulary: whole part fraction **numerator** **denominator** half **tenth**

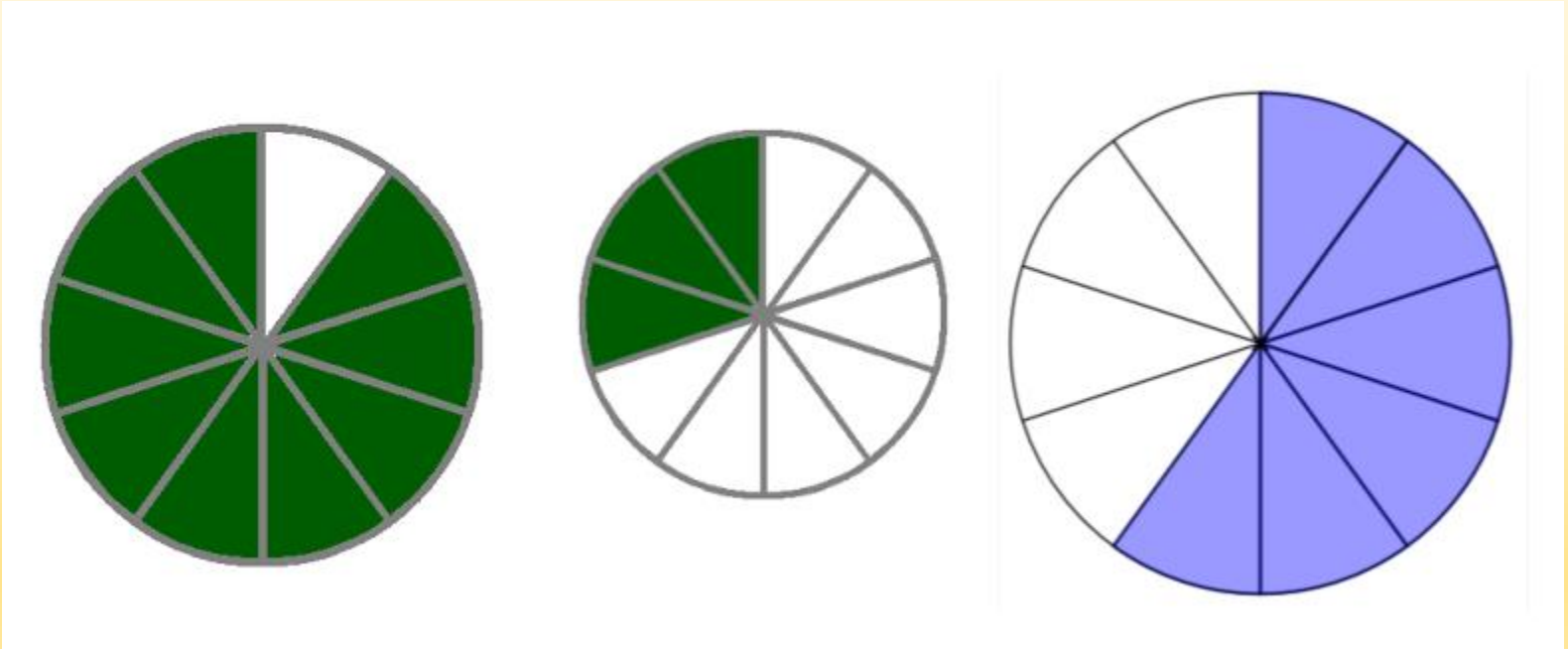
Thursday 30th April 2020

L.O. I am learning to recognise that tenths come from dividing an object into 10 equal parts.

What fraction of each shape is shaded?

How do you know?

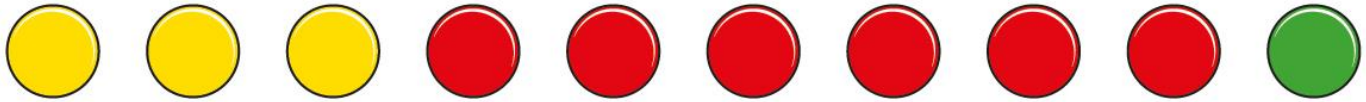
Can you explain how you knew how to write it as a fraction?



Key vocabulary: whole part fraction **numerator** **denominator** half **tenth**

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

1. Write fractions to complete the sentences.

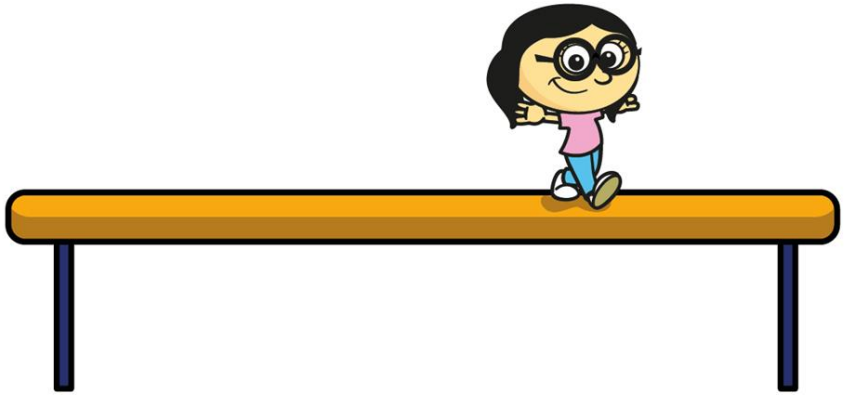


a) ☐ of the counters are yellow.

b) ☐ of the counters are red.

c) ☐ of the counters are green.

2. Annie has travelled $\frac{7}{10}$ of the way across a balance beam.



How many tenths does she have left to travel?

3. Dani has a bag of sweets.

$\frac{1}{2}$ of the sweets are red.

$\frac{3}{10}$ of the sweets are yellow.

The rest are green.

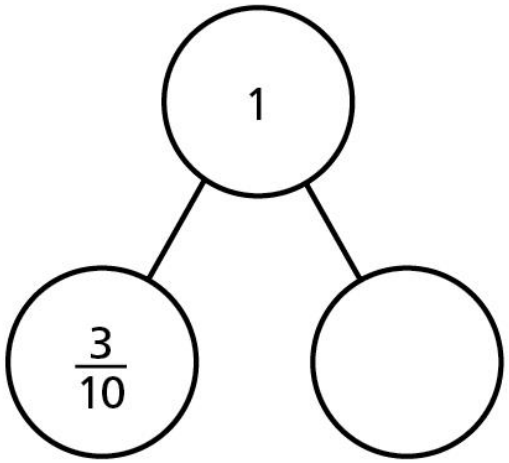
What fraction of the sweets are green?

$\square$

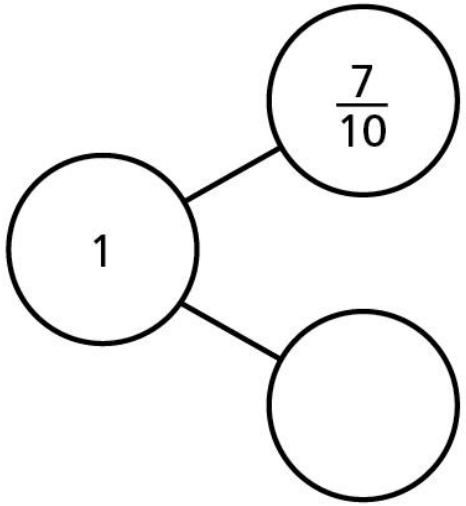
Now practise the part whole model:

4. Complete the part-whole models.

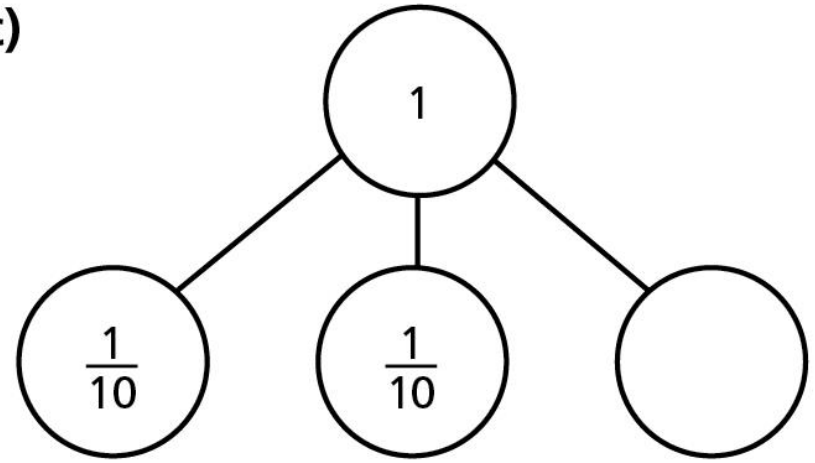
a)



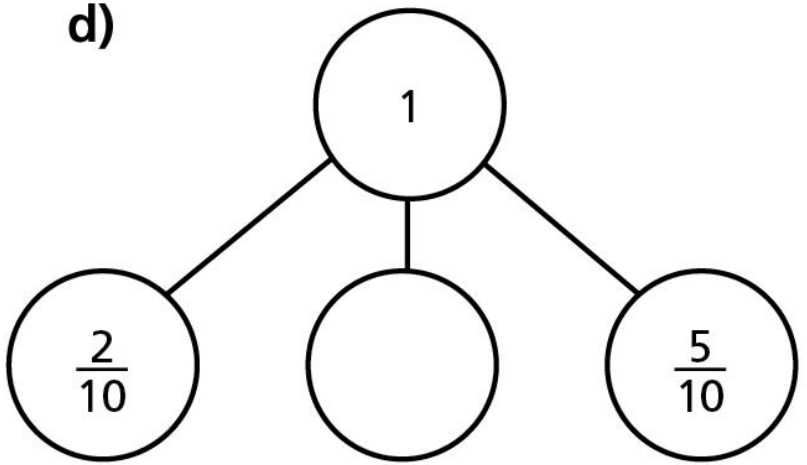
b)



c)

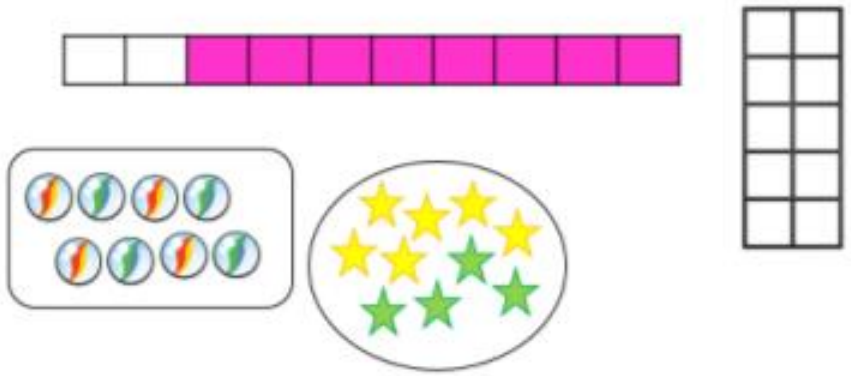


d)



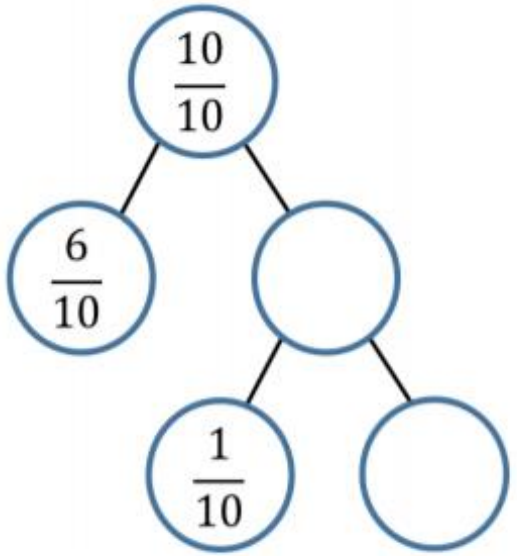
Challenges:

Odd One Out



Which is the odd one out?
Explain your answer.

Fill in the missing values.
Explain how you got your answers.



Annie has 2 cakes. She wants to share them equally between 10 people. What fraction of the cakes will each person get?

There are ____ cakes.
They are shared equally between ___ people.
Each person has $\frac{\square}{\square}$ of the cake.

___ ÷ ____ = _____

What fraction would they get if Annie had 4 cakes?

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 ☺

Friday 1st May 2020

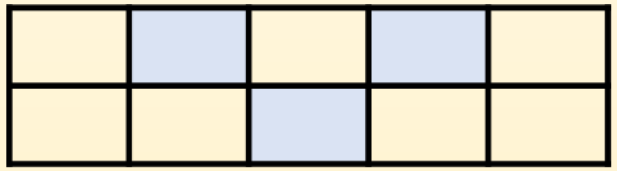
L.O. I am learning to solve a Smarties fraction challenge.

Key vocabulary: whole part fraction **numerator** **denominator** half third quarter tenth

01.05.20
Mental Maths

1) What fraction of the shape is shaded ?

Give your answer in words.



2) Add 1 m 46 cm to 2 m 56 cm.

3) Complete: 60 millimetres = ____ centimetres

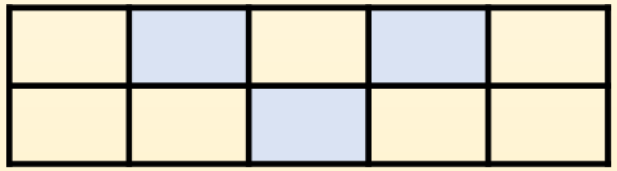
4) Subtract 347 from 561

01.05.20
Mental Maths

Check your answers!

1) What fraction of the shape is shaded ? = $\frac{3}{10}$

Give your answer in words.



2) Add 1 m 46 cm to 2 m 56 cm. = 4m and 2cm

3) Complete: 60 millimetres = 6 centimetres

4) Subtract 347 from 561 = 214

Friday 1st May 2020

L.O. I am learning to solve a Smarties fraction challenge.

Miss McGrath bought some Smarties!

She wanted to know how many Smarties there were of each colour.

Key vocabulary: whole part fraction **numerator** **denominator** half third quarter tenth

Friday 1st May 2020

L.O. I am learning to solve a Smarties fraction challenge.

Miss McGrath had some spare time so she sorted the Smarties into groups.

She made sure each group had the same colours.

How many Smarties were there altogether?

Key vocabulary: whole part fraction **numerator** **denominator** half third quarter tenth

Friday 1st May 2020

L.O. I am learning to solve a Smarties fraction challenge.

There were 61 Smarties!

If there are 61 Smarties altogether, how many are **red**?

Can you write this as a fraction?

Key vocabulary: whole part fraction **numerator** **denominator** half third quarter tenth

Friday 1st May 2020

L.O. I am learning to solve a Smarties fraction challenge.

We have **61 Smarties altogether**, this is our ***denominator***, the bottom number. This won't change!

We have **6 red Smarties**, this number is the ***numerator***, the top number of the fraction.

So there are 6 out of 61 red Smarties. We write it as a fraction like this:

$$\frac{6}{61}$$

Key vocabulary: whole part fraction **numerator** **denominator** half third quarter tenth

What fraction of each colour does Miss McGrath have?

Can you fill in the table, count each colour and then write it as a fraction.

Remember: the denominator (61) will stay the same!

Colour of Smarties	Number of this colour	Fraction
Red	6	$\frac{6}{61}$
Blue		
Pink		
Purple		
Green		
Brown		
Yellow		
Orange		

Key vocabulary: whole part fraction **numerator** **denominator** half third quarter tenth

Miss McGrath wants to share the Smarties with you.

Can you divide the Smarties equally between you and Miss McGrath? Draw how you do it.

Challenges:

Are there any left over?

What fraction of the Smarties are left over?

What fraction of each colour does Miss McGrath get?

Key vocabulary: whole part fraction **numerator** **denominator** half third quarter tenth

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 ☺