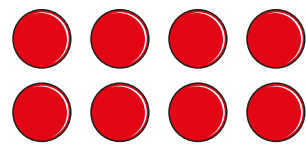


Find a quarter

1 Here are 8 counters.



a) Share the counters equally into 4 groups.



b) Complete the sentences.

counters are shared equally

between groups.

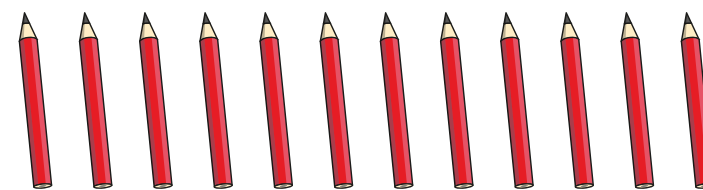
There are counters in each group.

c) What is $\frac{1}{4}$ of 8?

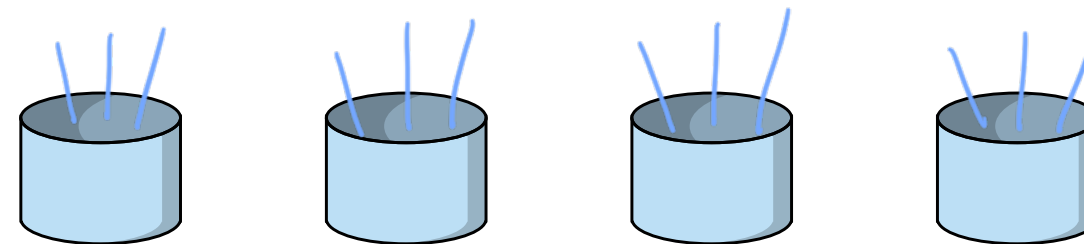
How did you work this out?



2 There are 12 pencils.

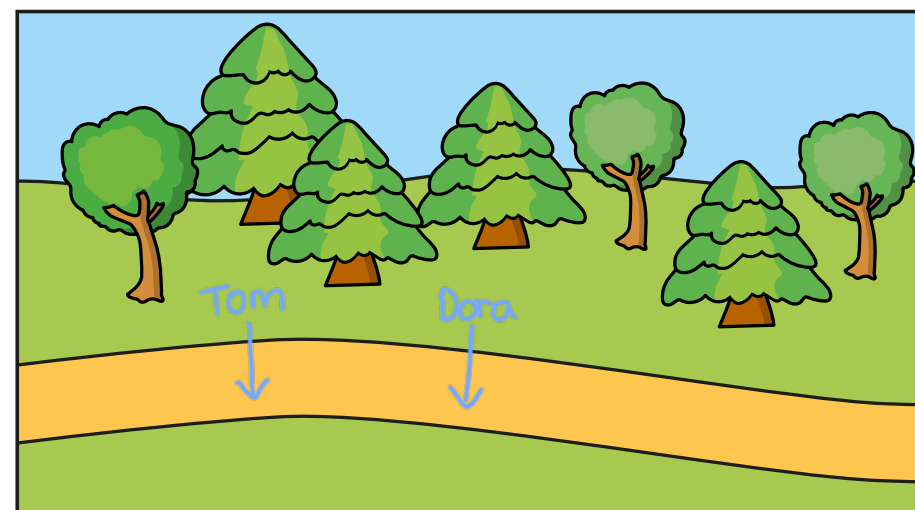


a) Share them equally between 4 pencil pots.



b) What is $\frac{1}{4}$ of 12?

3 Tom and Dora are walking along a path.
By midday Dora has walked halfway.
Tom has walked a quarter of the way.

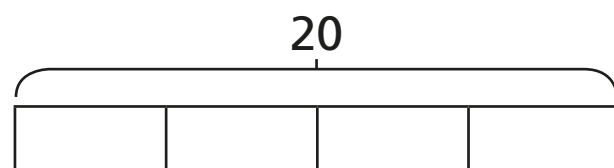


a) Draw an arrow to show where Dora is.
b) Draw an arrow to show where Tom is.



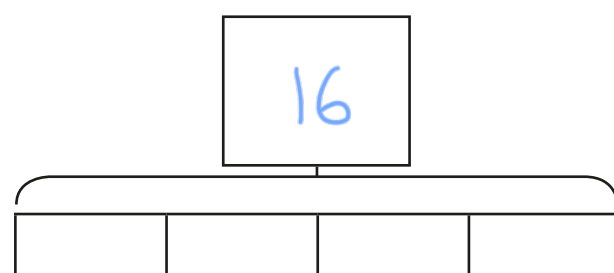
- 4 Use the bar models to help you work out a quarter.

a) Work out $\frac{1}{4}$ of 20



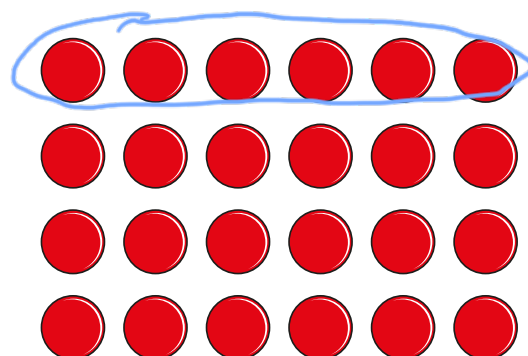
$$\frac{1}{4} \text{ of } 20 = \boxed{5}$$

b) Work out $\frac{1}{4}$ of 16

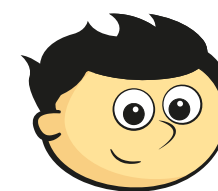


$$\frac{1}{4} \text{ of } 16 = \boxed{4}$$

- 5 Show that $\frac{1}{4}$ of 24 is 6



6



I can find a quarter by halving a number and halving again.

Use this method to find $\frac{1}{4}$ of 12



$\frac{1}{4}$ of 12 =

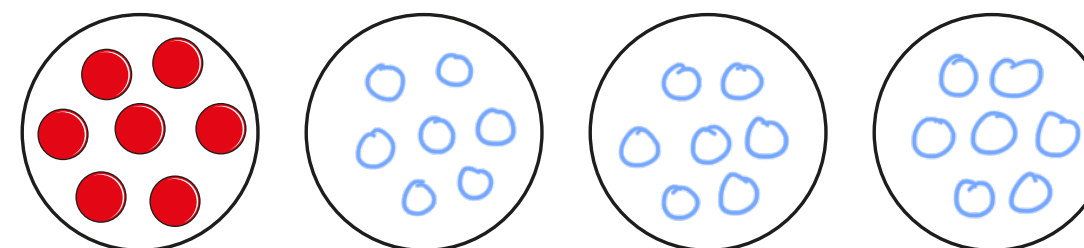
$$\boxed{3}$$

- 7 Complete the table.

Number	$\frac{1}{2}$ of Number	$\frac{1}{4}$ of Number
8	4	2
20	10	5
24	12	6

- 8 $\frac{1}{4}$ of a number is 7

What is the number?



The number is

$$\boxed{28}$$

Recognise a third

1 Use the words to complete the sentences.

$\frac{1}{3}$

three

third



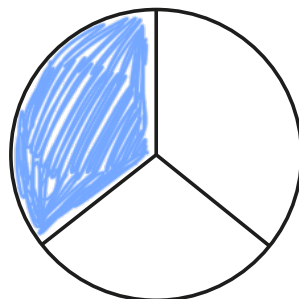
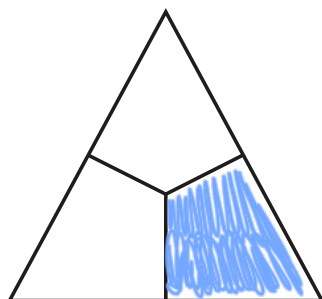
The spinner is split into three parts.

Each part is worth a third.

This can be written as

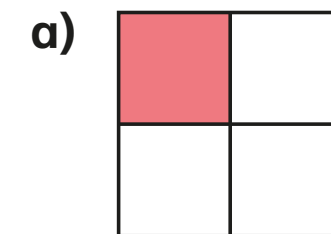
$\frac{1}{3}$

2 Colour $\frac{1}{3}$ of each shape.



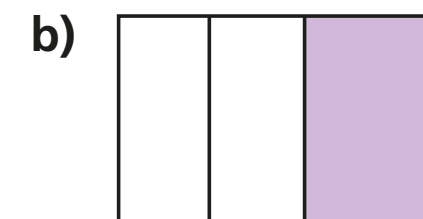
3 Do the shapes have $\frac{1}{3}$ shaded?

Tick your answer.



Yes
☐

No
☒

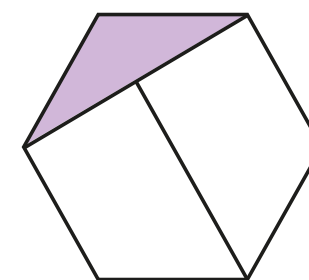
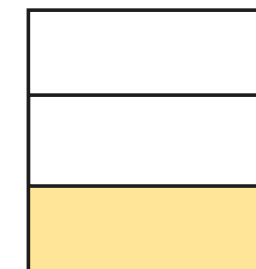
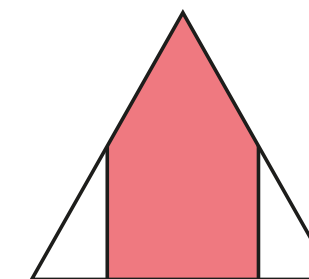
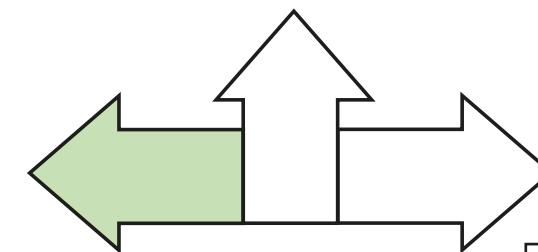


Yes
☐

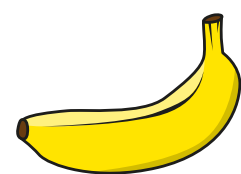
No
☒

How did you work this out? Talk to a partner.

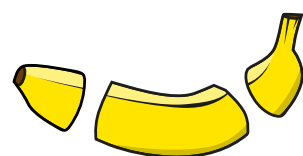
4 Tick the shapes that have $\frac{1}{3}$ shaded.


☐

☒

☐

☒

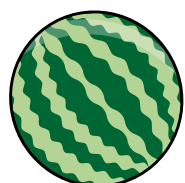
- 5 Ron cuts up some fruit.



banana



apple



melon



- a) Has the banana been cut into thirds?
How do you know?

No - the parts aren't equal.

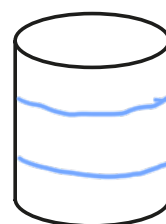
- b) Which fruit has been cut into thirds?

apple

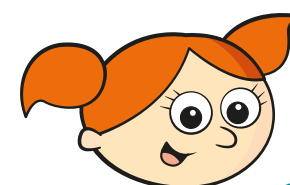
- c) Which fruit has been cut into halves?

melon

- 6 Draw lines to split the cylinder into thirds.



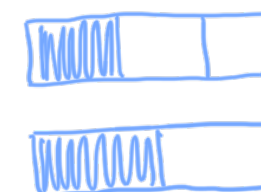
7



$\frac{1}{3}$ is greater than $\frac{1}{2}$
because 3 is
greater than 2

Is Alex correct? No

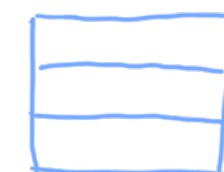
Draw a picture to show your answer.



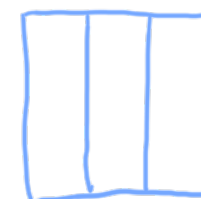
- 8 Only $\frac{1}{3}$ of each shape has been drawn.

Draw the whole shape in the box.

- a)



- b)



Find a third

- 1 3 children are sharing a bar of chocolate.
The chocolate is split into 6 equal parts.



a) Draw lines to share the chocolate equally.

b) Complete the sentences.

The whole chocolate bar is split into

6

Each child gets

2

parts each.

$\frac{1}{3}$ of 6 =

2

c) Complete the bar model and number sentence.

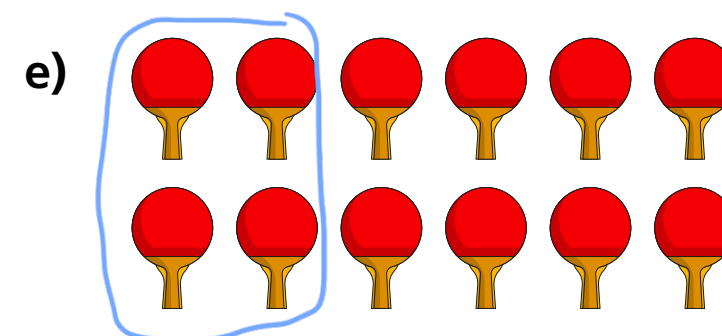
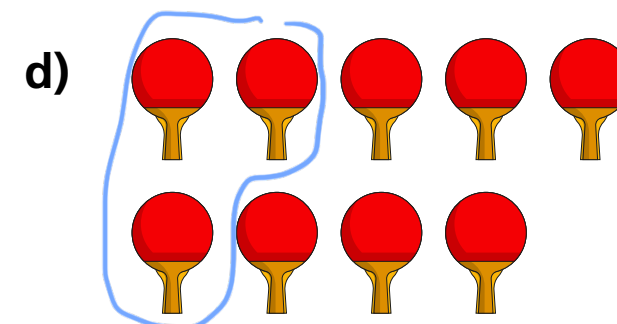
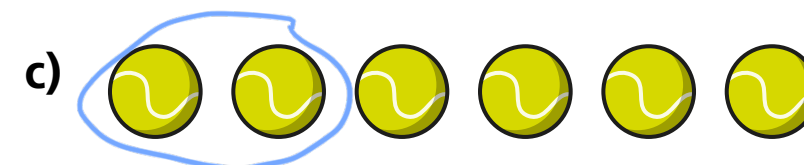
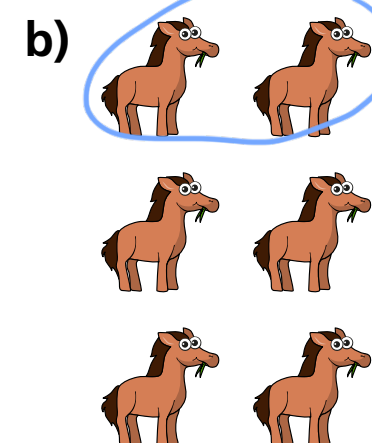
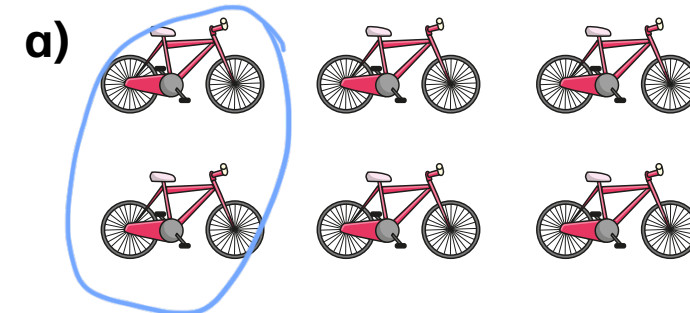
6		
2	2	2

$\frac{1}{3}$ of 6 =

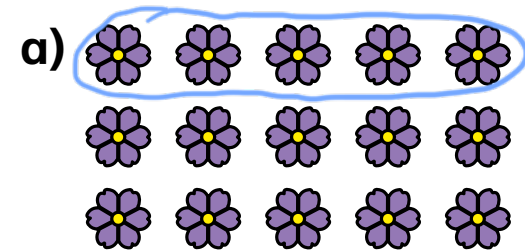
2



- 2 Circle $\frac{1}{3}$ of each group of items.



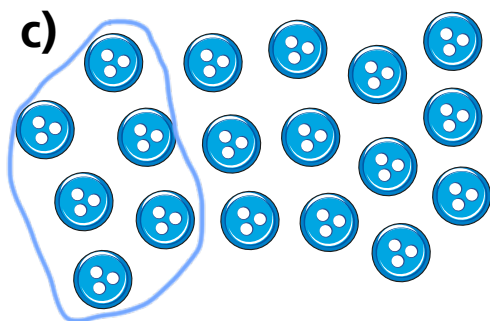
- 3 Circle $\frac{1}{3}$ of each group of items.
Complete the number sentences.



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

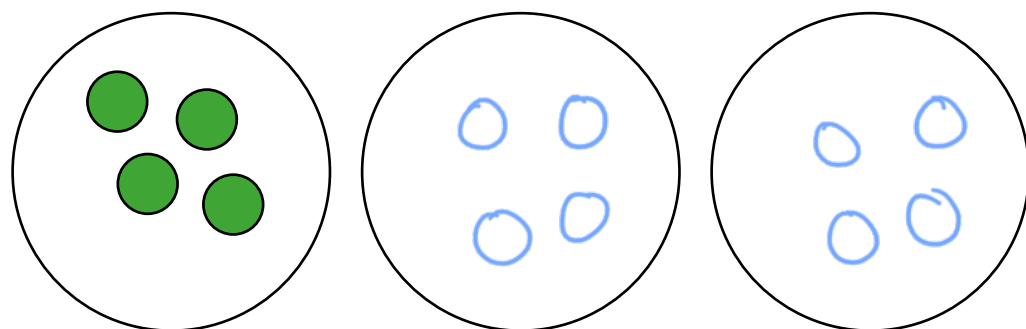


$$\frac{1}{3} \text{ of } \boxed{9} = \boxed{3}$$



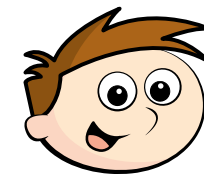
$$\frac{1}{3} \text{ of } \boxed{18} = \boxed{6}$$

- 4 One third of a number is 4
What is the number?



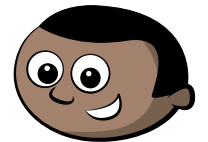
The number is $\boxed{12}$

5



Teddy

I have $\frac{1}{3}$ of £9



Mo

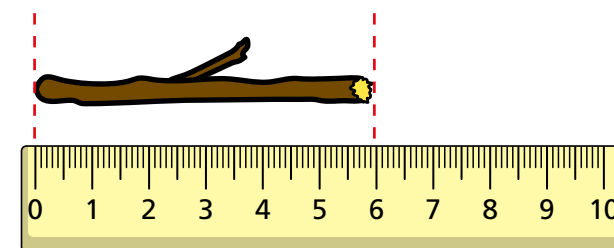
I have $\frac{1}{2}$ of £8

Who has more money? Mo

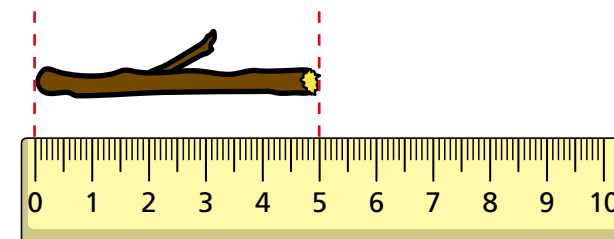
How do you know?

- 6 Whitney snaps two sticks into thirds.
Here is $\frac{1}{3}$ of each stick.

Stick A



Stick B



- a) How long was stick A before Whitney snapped it?

$\boxed{18}$ cm

- b) How long was stick B before Whitney snapped it?

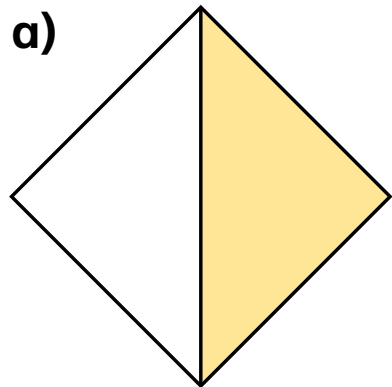
$\boxed{15}$ cm



Unit fractions

1 Complete the sentences for each shape.

a)

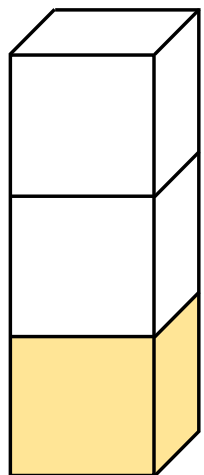


There are equal parts.

There is part shaded.

is shaded.

b)

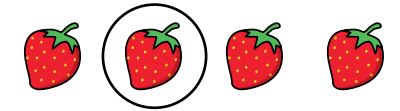


There are equal parts.

There is part shaded.

is shaded.

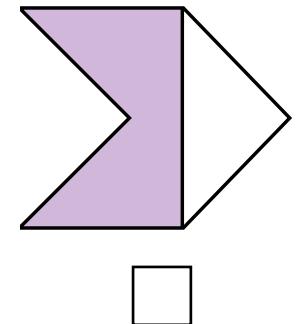
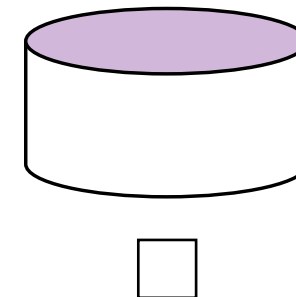
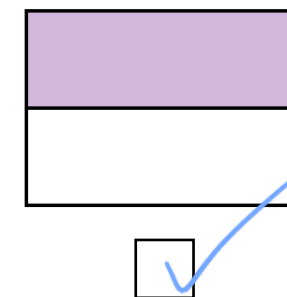
2 There are equal parts.



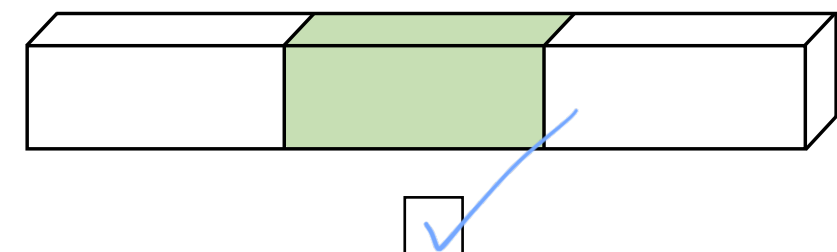
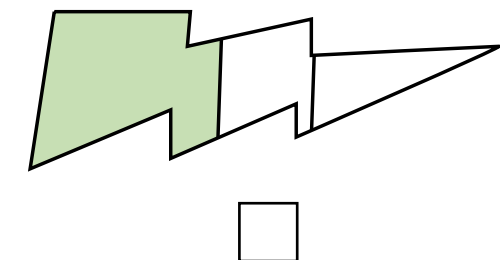
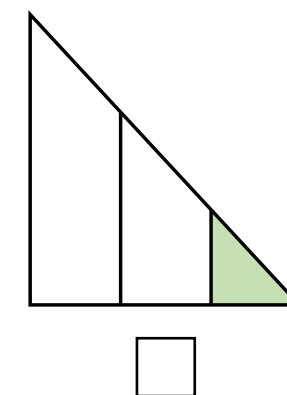
There is part circled.

is circled.

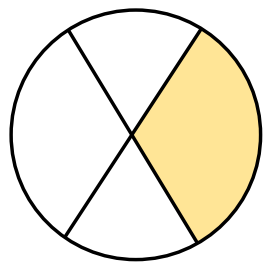
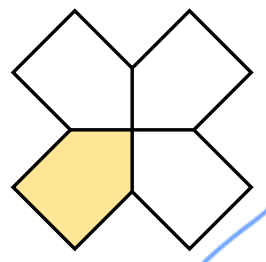
3 Tick the shape that has $\frac{1}{2}$ shaded.



4 Tick the shape that has $\frac{1}{3}$ shaded.

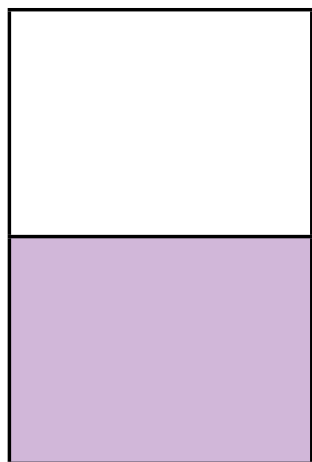


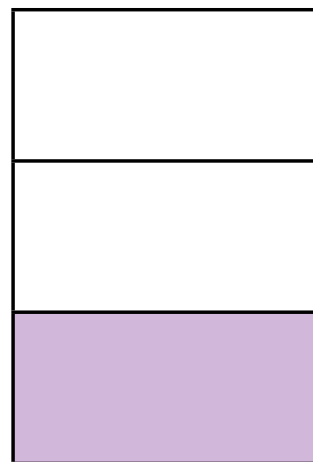
- 5 Tick the shapes that have $\frac{1}{4}$ shaded.

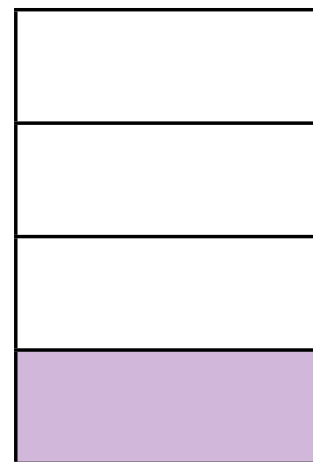

☐

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☐

- 6 What fraction of each shape is shaded?



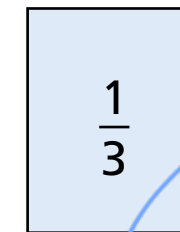
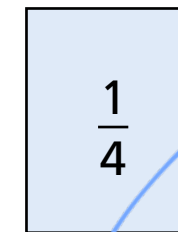
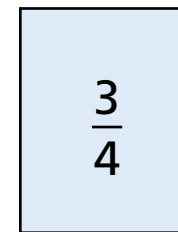
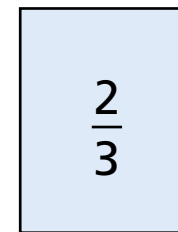




What is the same about the fractions?

What is different about them?

- 7 Here are some fractions.



Tick all the unit fractions.

Compare answers with a partner.

Can you think of any more unit fractions?

- 8 Match the objects to the unit fractions.

