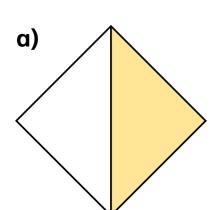
Unit fractions



Omplete the sentences for each shape.

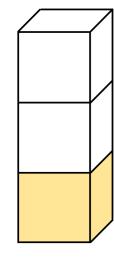


There are 2 equal parts.

There is part shaded.

 $\frac{1}{2}$ is shaded.

b)



There are 3 equal parts.

There is part shaded.

is shaded.

There are



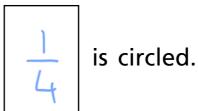
equal parts.



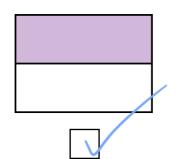


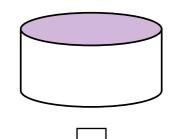


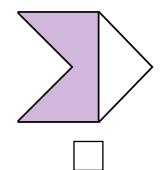
There is part circled.



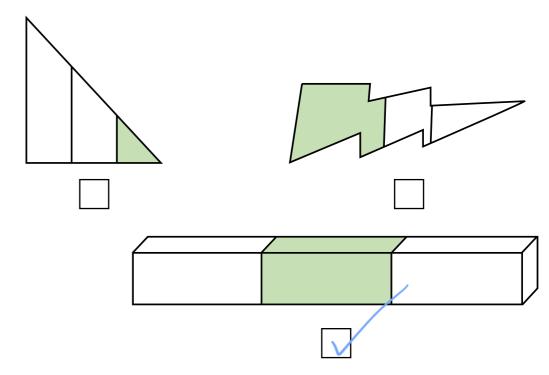
3 Tick the shape that has $\frac{1}{2}$ shaded.

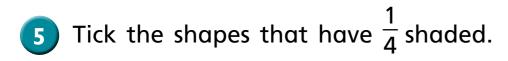


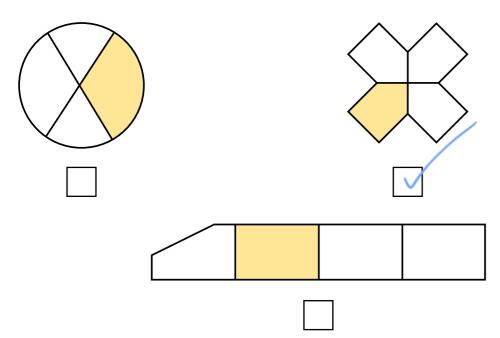




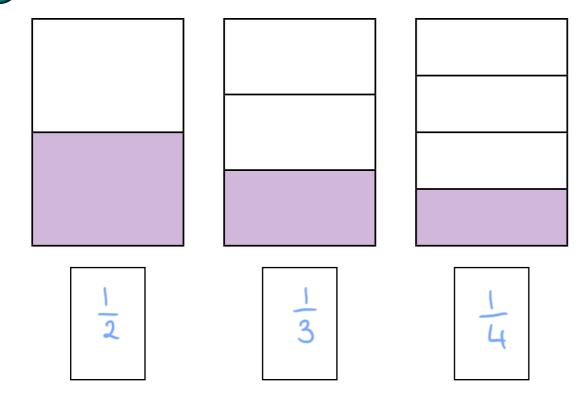
Tick the shape that has $\frac{1}{3}$ shaded.







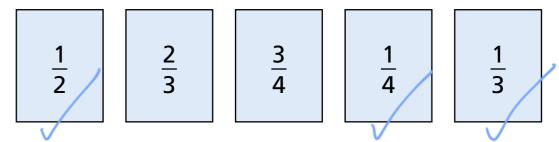
What fraction of each shape is shaded?



What is the same about the fractions?

What is different about them?

Here are some fractions.

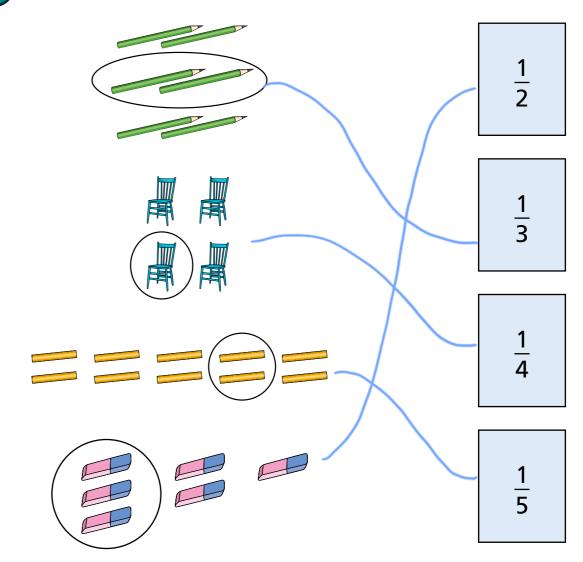


Tick all the unit fractions.

Compare answers with a partner.

Can you think of any more unit fractions?

8 Match the objects to the unit fractions.







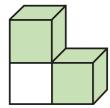


Non-unit fractions



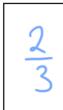
Complete the sentences.





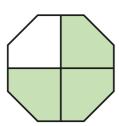
There are 3 equal parts.

There are 2 parts shaded.

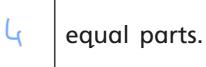


is shaded.

b)



There are



There are



parts shaded.

3-4

is shaded.

c)



There are



equal parts.

There are



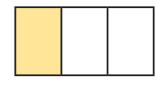
parts shaded.

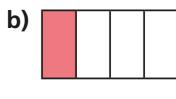
3/3

is shaded.

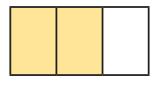
2 What fraction of each shape is shaded?

a)

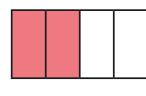




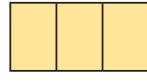
1/4



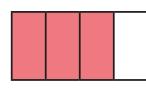
23



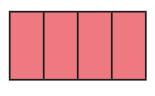
24



3

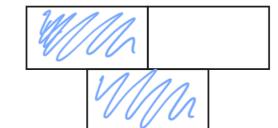


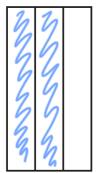
34

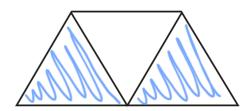


4

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

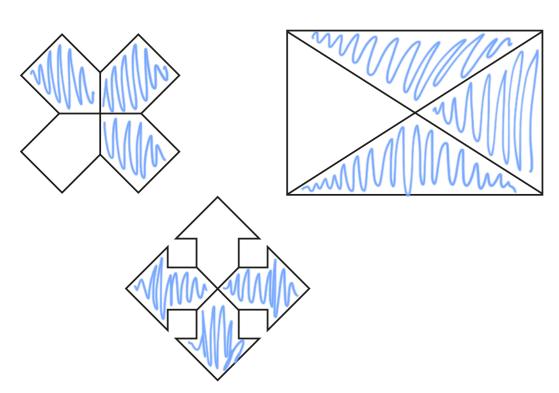








Colour $\frac{3}{4}$ of each shape.



- **5** A shape has 3 equal parts.
 - a) What fraction is shaded if there are2 parts shaded?

 $\frac{2}{3}$ is shaded.

b) What fraction is shaded if there are 3 parts shaded?

 $\frac{3}{3}$ is shaded.



6 Write the fractions in the table.

								-
1		3		1		1		
3		4		2		4		

Uni	Unit fractions		Non-unit fractions		
13	12	<u> </u>	3 4	2/3	

7 Fill in the boxes to give a unit fraction and a non-unit fraction.



Work with a partner.

Find other examples of unit fractions and non-unit fractions.

Write five examples of each.

e.g. unit fractions: $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{6}$ $\frac{1}{7}$

non-unit fractions: $\frac{2}{7}$ $\frac{3}{11}$ $\frac{1}{10}$ $\frac{5}{17}$ $\frac{6}{99}$





Find a half



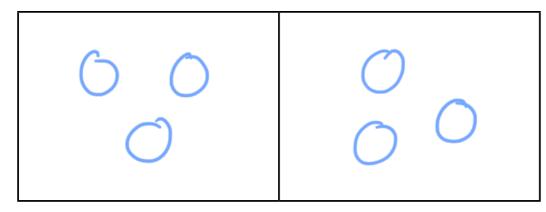
Here are 6 counters.











b) Complete the sentences.

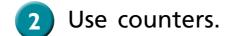
There are 6 counters.

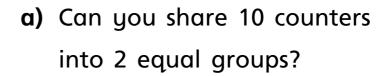
The counters are shared equally between



There are 3 counters in each group.

$$\frac{1}{2}$$
 of 6 is equal to $\boxed{3}$



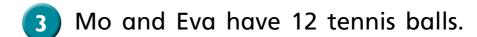


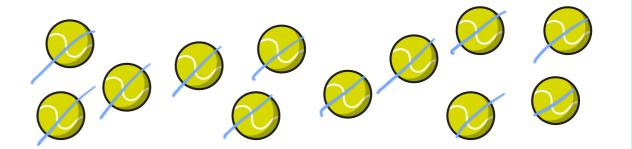


b) Can you share 11 counters into 2 equal groups?

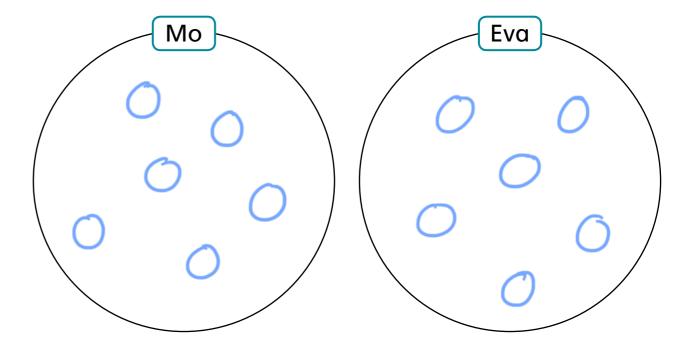
No

Talk about it with a partner.



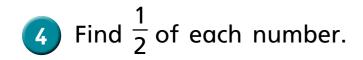


Share the tennis balls equally between Mo and Eva.



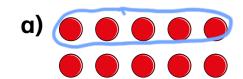




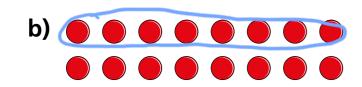




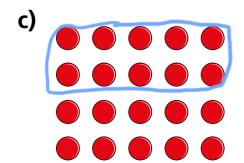
Use the arrays to help you.



$$\frac{1}{2}$$
 of 10 = $\frac{1}{5}$

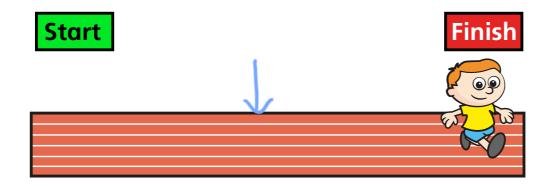


$$\frac{1}{2}$$
 of 16 = 8



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

6 Ron has run 20 m.



Rosie has run half that distance.

- **a)** Draw an arrow on the running track to show where Rosie is.
- a) How far has Rosie run?



6 Here are half of Annie's sweets.









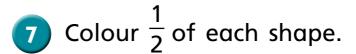


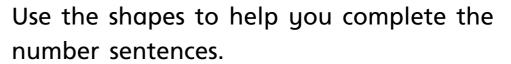


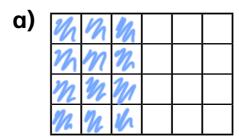
How many sweets does Annie have in total?



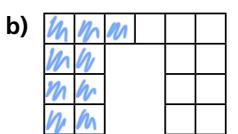
Compare answers with a partner.







$$\frac{1}{2}$$
 of $\boxed{24} = \boxed{12}$



$$\frac{1}{2}$$
 of $|8| = 9$

8 Complete the number sentences.

$$\frac{1}{2}$$
 of $\left| \begin{array}{c} 1 \\ 2 \\ \end{array} \right| = 10$

$$\frac{1}{2}$$
 of $\left| \right| = 7$



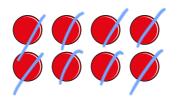




Find a quarter



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.

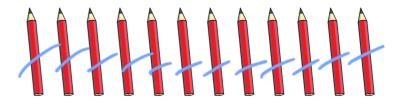
c) What is $\frac{1}{4}$ of 8?



How did you work this out?



There are 12 pencils.



a) Share them equally between 4 pencil pots.







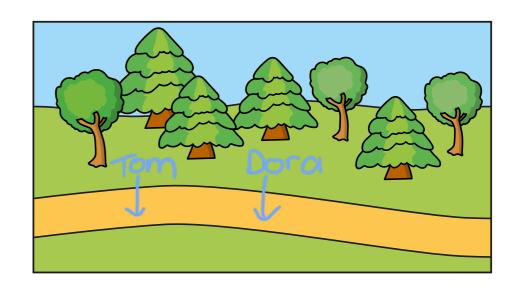




b) What is $\frac{1}{4}$ of 12?



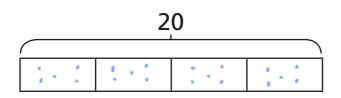
Tom and Dora are walking along a path. By midday Dora has walked halfway. Tom has walked a quarter of the way.



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

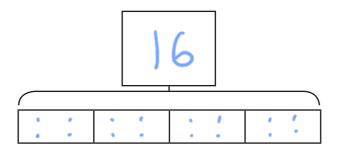


- Use the bar models to help you work out a quarter.
 - a) Work out $\frac{1}{4}$ of 20



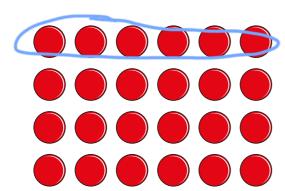
$$\frac{1}{4}$$
 of 20 = 5

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



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

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

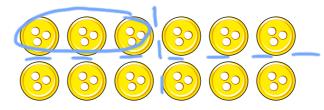






I can find a quarter by halving a number and halving again.

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



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

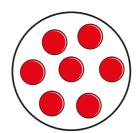


7 Complete the table.

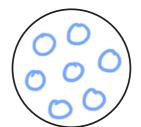
Number	$\frac{1}{2}$ of Number	$\frac{1}{4}$ of Number	
8	4	N	
20	10	5	
24	12	6	

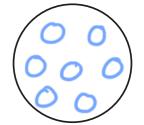
 $\frac{1}{4}$ of a number is 7

What is the number?









The number is





