# Unit and non-unit fractions



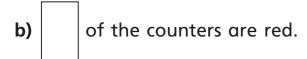
Write fractions to complete the sentences.





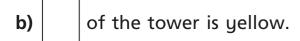


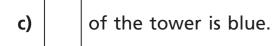
a)	of the	counters	are	yellow



Write fractions to complete the sentences.

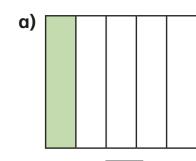
\		.l			
a)	ОТ	tne	tower	IS	green

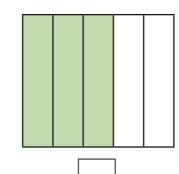


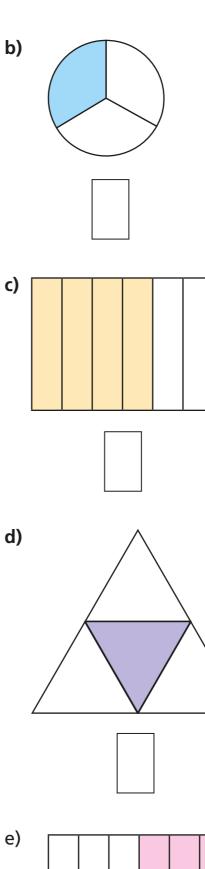


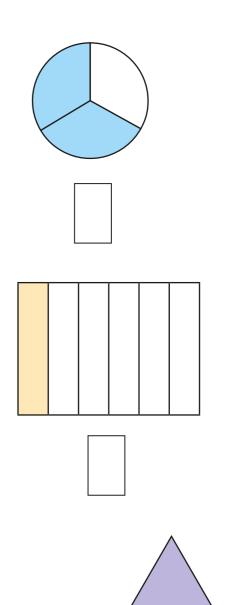


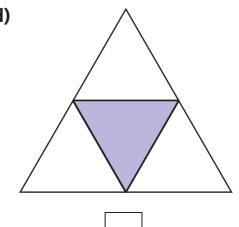
What fraction of each shape is shaded?

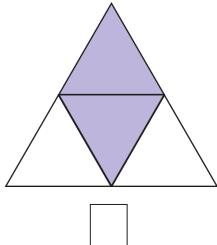


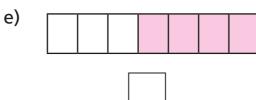


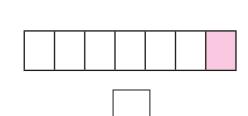








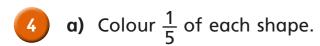


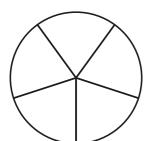


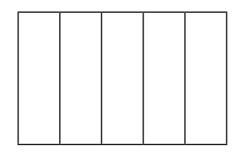
Tick the unit fraction in each pair of shapes.

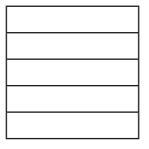
How did you know which was the unit fraction?



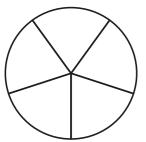


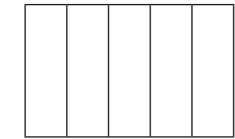


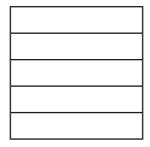




**b)** Colour  $\frac{3}{5}$  of each shape.



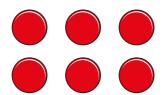




What is the same and what is different about your answers?

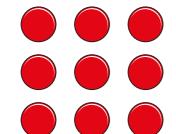


a) Circle  $\frac{1}{3}$  of the counters.





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



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



Write the fractions in the table.

<u>1</u>6

<u>2</u> 3 3/4

1/10

18

<u>3</u> 5 <u>1</u>

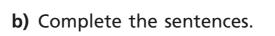
<u>1</u> 99 <u>6</u> 1 <u>1</u> 250

Unit fractions	Non-unit fractions

Write two more examples of your own in each column.

**a)** What is a unit fraction? What is a non-unit fraction?

Talk about it with a partner.



An example of a unit fraction is

The numerator is always

An example of a non-unit fraction is

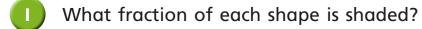
The numerator is always greater than



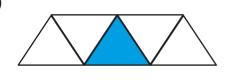


# What is a fraction?

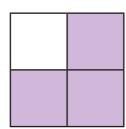




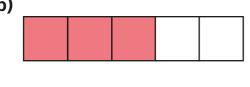
a)



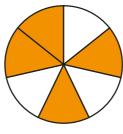
c)



b)



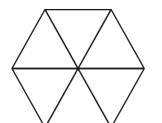
d)



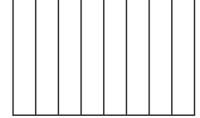


Shade each diagram to represent the fractions.

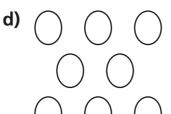
a)



c)









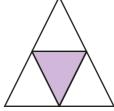
<u>10</u> 11

How do you know which are unit fractions?

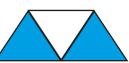


a) Tick the shapes with one third shaded.

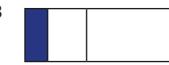
Α

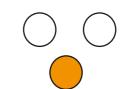




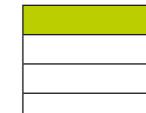


В

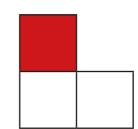




G



C



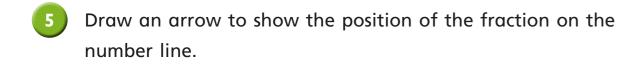
**b)** Complete the sentences to describe the shapes with one third shaded.

There are equal parts altogether.

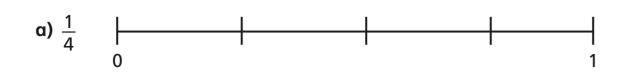














c) 
$$\frac{1}{2}$$
 0

d) 
$$\frac{1}{3}$$
 0

Oraw an arrow to show the position of  $\frac{5}{5}$  on the number line.





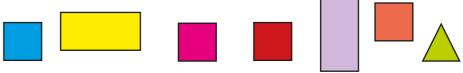
What do you notice?



Draw four	different	representations	of 3
Diaw ioui	different	representations	$\frac{1}{4}$



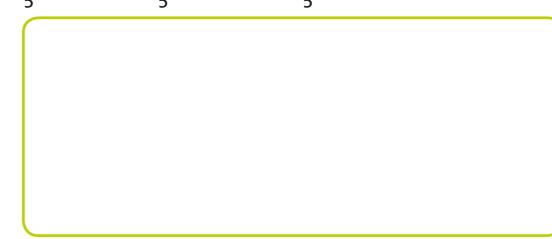




- a) What fraction of the shapes are triangles?
- b) What fraction of the shapes are squares?
- c) What fraction of the shapes have four sides?

d)	Draw	2D	shapes	to	match	the	description
----	------	----	--------	----	-------	-----	-------------

 $\frac{1}{5}$  are squares,  $\frac{2}{5}$  are triangles,  $\frac{3}{5}$  have more than 3 sides.



Compare shapes with a partner.

What is the same about your shapes? Is anything different?



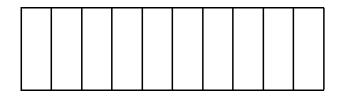


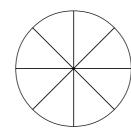


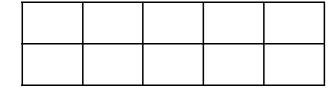
### **Tenths**

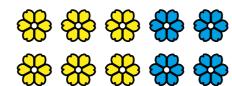


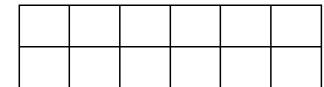
Tick the pictures that show tenths.













Write fractions to complete the sentences.



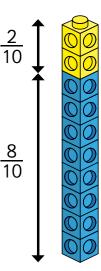
- a) of the counters are yellow.
- b) of the counters are red.
- c) of the counters are green.

Amir has some blue and yellow cubes.

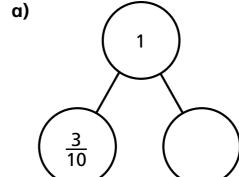
He makes a tower using 10 cubes.

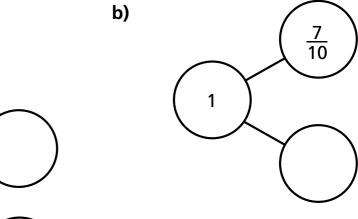
Investigate how many different towers

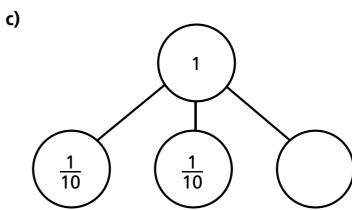
Amir can make with 10 cubes, if every tower
has a different fraction of blue and
yellow cubes.



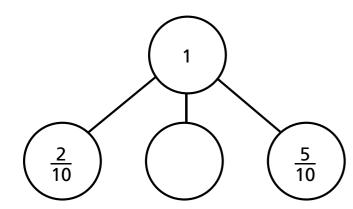
Complete the part-whole models.



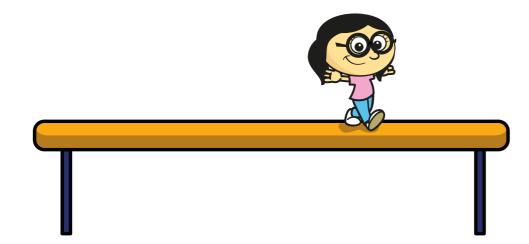




d)



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



How many tenths does she have left to travel?

10 boys share 3 pizzas equally.







What fraction of a pizza do they each get?

7	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?

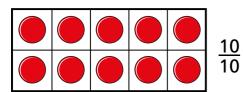
N	Mo also has a bag of sweets.	
1	4 of his sweets are red.	
I	The rest are green or yellow.	
٧	What fraction of Mo's sweets could be green?	
١	What fraction could be yellow?	
H	How many possible answers can you find?	
_		
_		



# **Count in tenths**

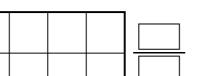


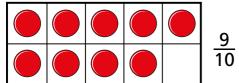
Continue the sequence.

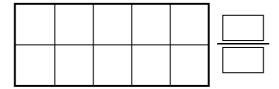


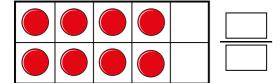


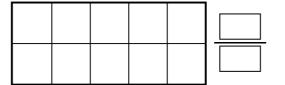




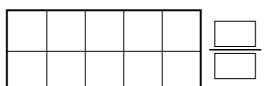












2 Continue the sequence.















Write the missing fractions in each sequence.

a)

<u>1</u>

<u>2</u> 10



<u>4</u> 10



<u>6</u> 10 <u>7</u>



<u>9</u> 10



b)

<u>10</u> 10 <u>9</u> 10



<u>7</u>



<u>5</u> 10

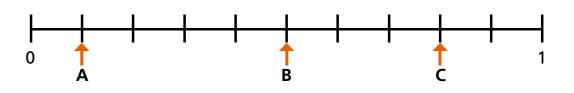




<u>2</u> 10

1	
10	

What fraction is each arrow pointing to?





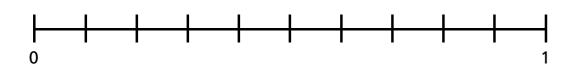
a)



<u>9</u> 10

<u>3</u> 10

<u>10</u> 10



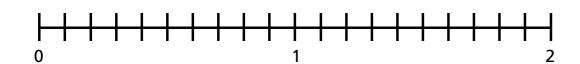
b)



<u>14</u> 10

<u>18</u> 10





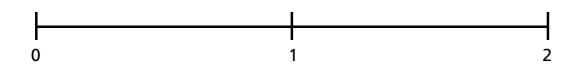
Draw and label arrows to estimate the position of the fractions on the number lines.

a)



15 10

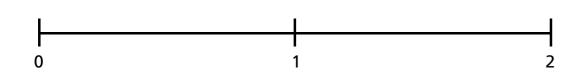


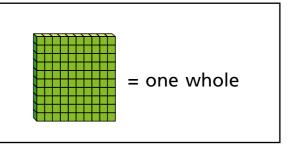


b)



<u>11</u> 10

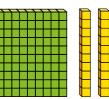




What number is represented in each picture?













Whitney is thinking of a fraction.



My fraction is more than one whole but less than 2 My fraction has an odd number as the numerator.

What could Whitney's fraction be? List all the possible fractions.

Compare answers with a partner.



# **Equivalent fractions (1)**





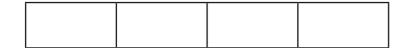
Shade the bar models to represent the fractions.



a) Shade  $\frac{1}{2}$  of the bar model.



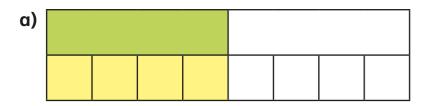
**b)** Shade  $\frac{2}{4}$  of the bar model.



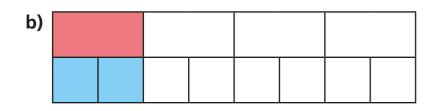
What do you notice?



Complete the equivalent fractions.



$$\frac{1}{2} = \frac{\boxed{\phantom{0}}}{8}$$

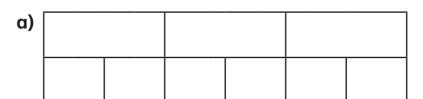


$$\frac{1}{4} = \frac{2}{\boxed{}}$$

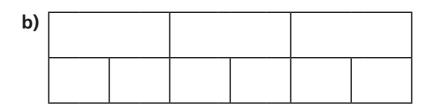
c)								

$$\frac{3}{4} = \frac{6}{\boxed{}}$$

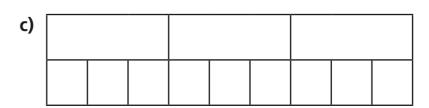
3 Shade the bar models to represent the equivalent fractions.



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



$$\frac{2}{3} = \frac{4}{6}$$



$$\frac{1}{3} = \frac{3}{9}$$

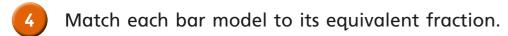


$$\frac{2}{3} = \frac{6}{9}$$

Can you find any more equivalent fractions using the bar models?



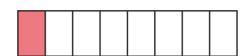




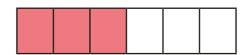
1	
2	



<u>1</u> 3



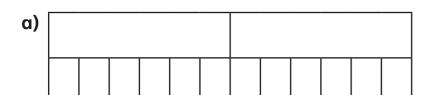
1/4



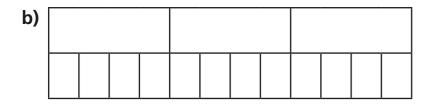
1/8



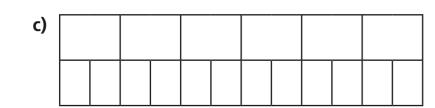
Shade the bar models to complete the equivalent fractions.



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



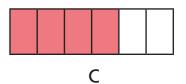
$$\frac{1}{3} = \frac{\boxed{}}{12}$$



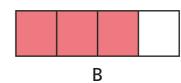
$$\frac{1}{6} = \frac{\boxed{}}{12}$$

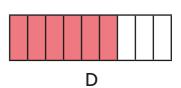
The bar models represent fractions.





Α

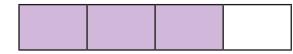




Which is the odd one out? \_\_\_\_\_

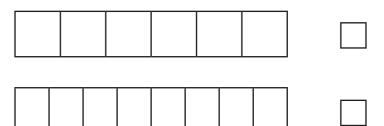
Why do you think this?





Tick the bar models that can be used to show a fraction that is equivalent to  $\frac{3}{4}$ 

Shade the bar models to support your answers.





Talk to a partner about your answers.

