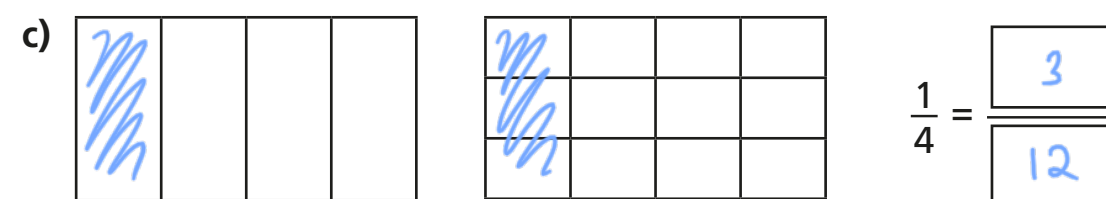
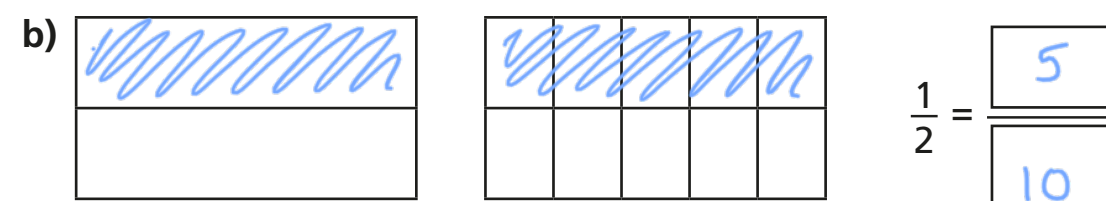
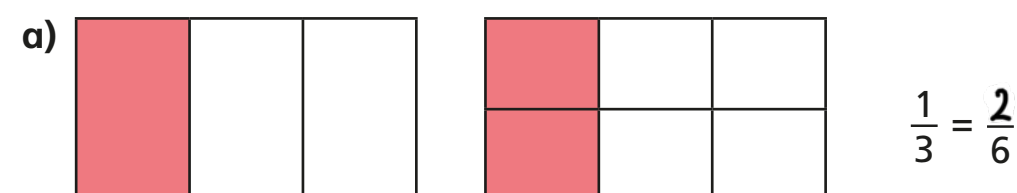


# Equivalent fractions (2)

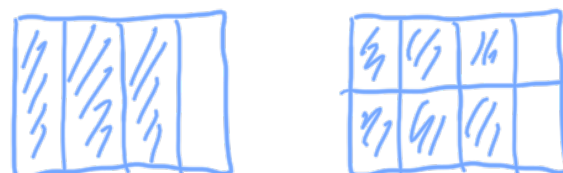


- 1 Shade the diagrams to help you complete the equivalent fractions.

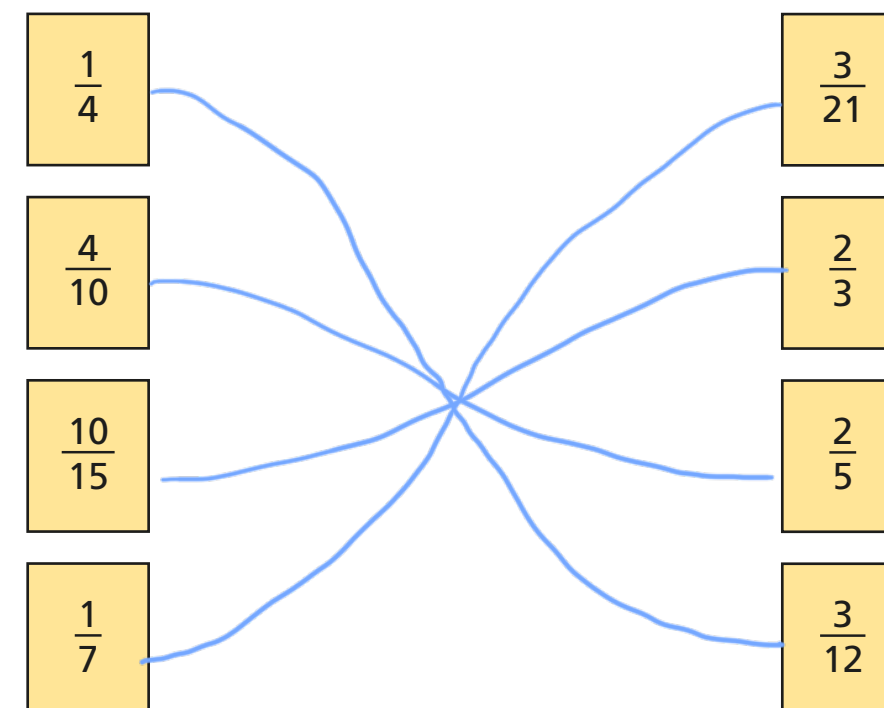
The first one has been done for you.



- 2 Draw a diagram to show that  $\frac{3}{4} = \frac{6}{8}$



- 3 Match the equivalent fractions.



- 4 Complete the equivalent fractions.

a)  $\frac{1}{5} = \frac{2}{10}$

d)  $\frac{3}{10} = \frac{9}{30}$

g)  $\frac{8}{12} = \frac{2}{3}$

b)  $\frac{4}{5} = \frac{8}{10}$

e)  $\frac{6}{8} = \frac{3}{4}$

h)  $\frac{2}{5} = \frac{10}{25}$

c)  $\frac{3}{10} = \frac{6}{20}$

f)  $\frac{8}{12} = \frac{2}{3}$

i)  $\frac{1}{7} = \frac{4}{28}$

- 5 a) Write the fractions in the correct place on the sorting diagram.

$\frac{8}{24}$	$\frac{3}{12}$	$\frac{5}{15}$	$\frac{6}{24}$	$\frac{4}{12}$	$\frac{9}{36}$	$\frac{3}{9}$	$\frac{4}{16}$
----------------	----------------	----------------	----------------	----------------	----------------	---------------	----------------

	equivalent to $\frac{1}{3}$	equivalent to $\frac{1}{4}$
odd denominator	$\frac{5}{15}$ $\frac{3}{9}$	
even denominator	$\frac{8}{24}$ $\frac{4}{12}$	$\frac{3}{12}$ $\frac{6}{24}$ $\frac{9}{36}$ $\frac{4}{16}$

- b) Are any of the boxes empty?

Why do you think this is?

Talk about your answer with a partner.



- 6 Find three ways to make the fractions equivalent.  
*Various answers e.g.*

a)  $\frac{2}{2} = \frac{4}{4}$   $\frac{2}{5} = \frac{4}{10}$   $\frac{2}{71} = \frac{4}{142}$

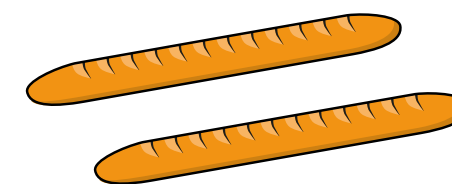
b)  $\frac{1}{5} = \frac{4}{20}$   $\frac{1}{2} = \frac{4}{8}$   $\frac{1}{10} = \frac{4}{40}$

c)  $\frac{2}{3} = \frac{6}{9}$   $\frac{1}{3} = \frac{3}{9}$   $\frac{3}{3} = \frac{9}{9}$

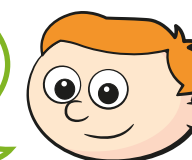
- 7 Eva and Ron have a baguette each.

The baguettes are the same size.

Eva cuts her baguette into 8 equal pieces.



3 of my equal pieces are equal to 6 of Eva's.



How many equal pieces has Ron cut his baguette into?

Eva 

--	--	--	--	--	--	--	--

Ron 

--	--	--	--

Ron has cut his baguette into 

4
---

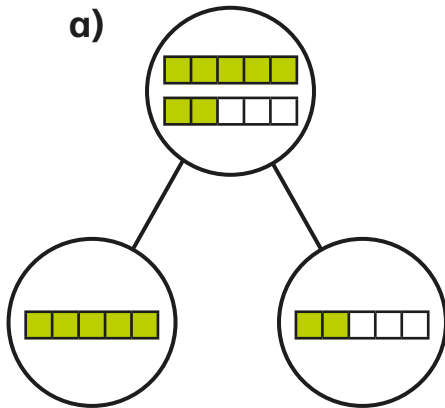
 equal pieces.



# Fractions greater than 1

1 Complete the sentences.

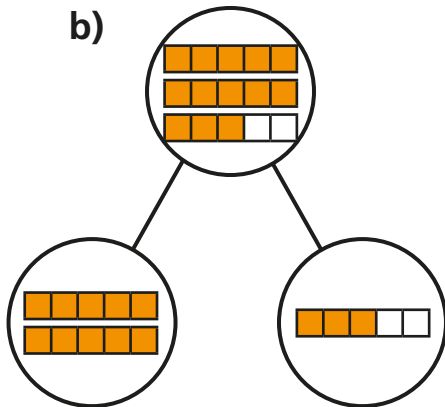
a)



There are 7 fifths altogether.

7 fifths =  whole +  fifths

b)

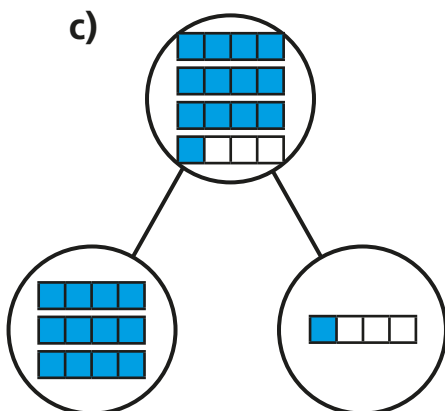


There are  fifths altogether.

fifths =  wholes +

fifths

c)



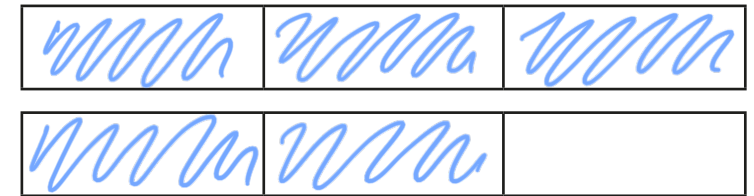
There are  quarters altogether.

quarters =  wholes +

quarter

2 Shade the bar models to represent the fractions.

a)  $\frac{5}{3}$



$\frac{5}{3} =$  whole +  thirds =

b)  $\frac{8}{3}$



$\frac{8}{3} =$  wholes +  thirds =

c)  $\frac{8}{5}$



$\frac{8}{5} =$  whole +  fifths =



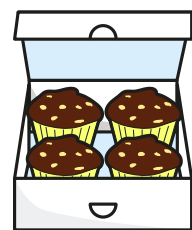
3 Complete the statements.

- a)  $\frac{12}{2} = \boxed{6}$  wholes      e)  $\frac{15}{3} = \boxed{5}$  wholes
- b)  $\frac{12}{4} = \boxed{3}$  wholes      f)  $\frac{15}{5} = \boxed{3}$  wholes
- c)  $\frac{12}{6} = \boxed{2}$  wholes      g)  $\frac{15}{4} = \boxed{3}$  wholes +  $\boxed{3}$  quarters
- d)  $\frac{12}{3} = \boxed{4}$  wholes      h)  $\frac{15}{2} = \boxed{7}$  wholes +  $\boxed{1}$  half

4 Whitney bakes 26 muffins.

Muffins are packed in boxes of 4

a) How many boxes can Whitney fill?



Whitney can fill  $\boxed{6}$  boxes.

b) How many more muffins does Whitney need to fill another box?

Whitney needs  $\boxed{2}$  muffins to fill another box.

Explain how you know.

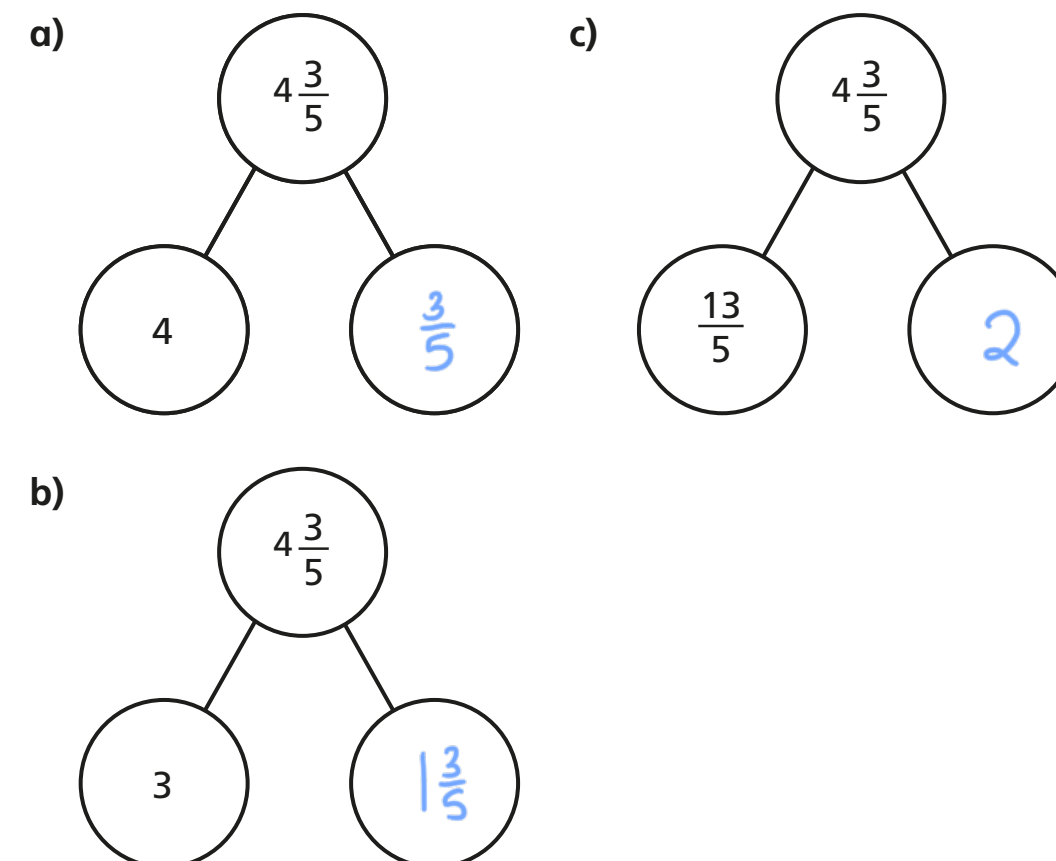
She will fill 6 boxes with 2 left over so another  
2 are needed to fill the seventh box.

How does writing  $\frac{26}{4}$  help you to answer this?

5 Write  $<$ ,  $>$  or  $=$  to complete the statements.

- a) 2 wholes and 3 quarters  $\boxed{>}$  5 quarters
- b) 2 wholes and 3 quarters  $\boxed{<}$  15 quarters
- c) 2 wholes and 3 sixths  $\boxed{=}$  15 sixths
- d) 2 wholes and 3 eighths  $\boxed{>}$  15 eighths
- e)  $\frac{15}{3} \boxed{>} \frac{15}{5}$
- f)  $\frac{15}{3} \boxed{=} \frac{20}{4}$

6 Complete the part-whole models.

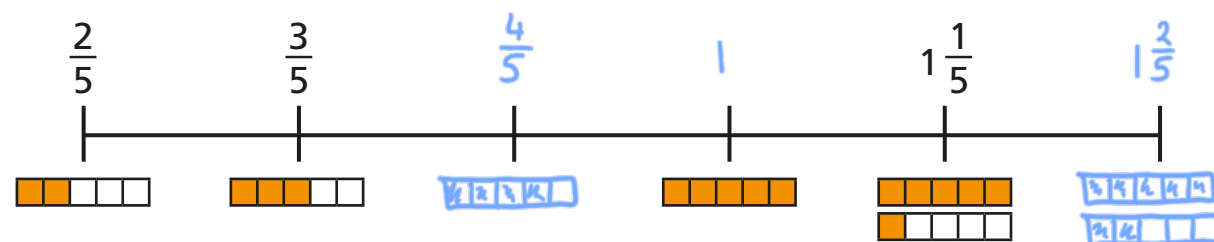


# Count in fractions

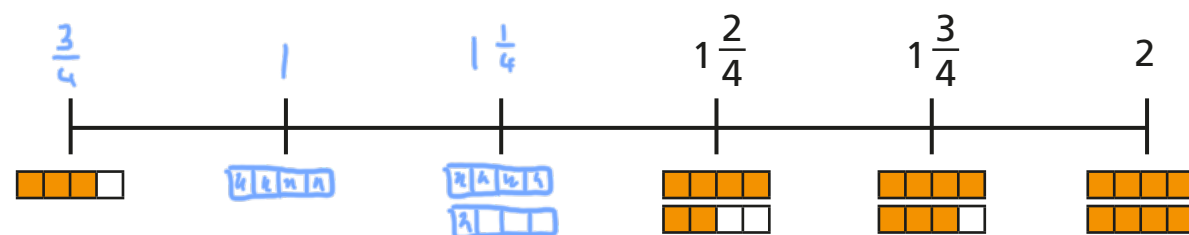


1 Complete the number lines.

a)

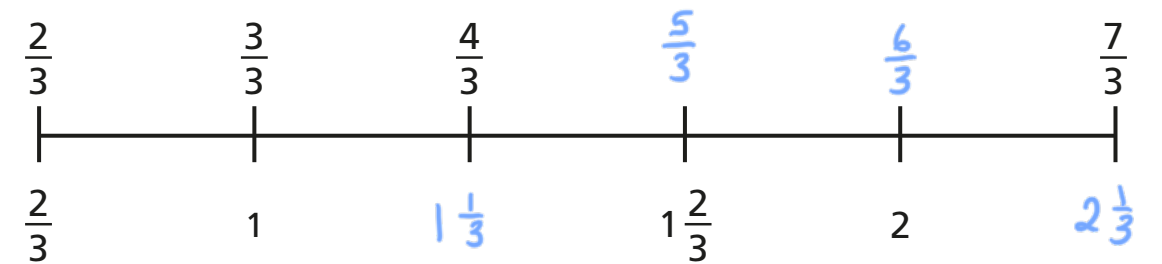


b)

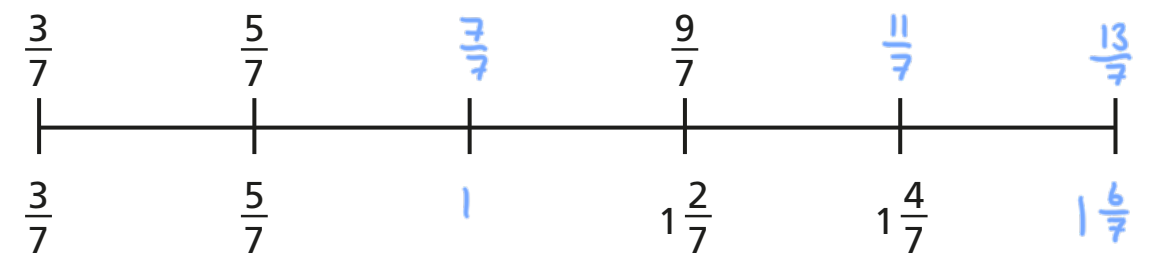


2 Complete the number lines.

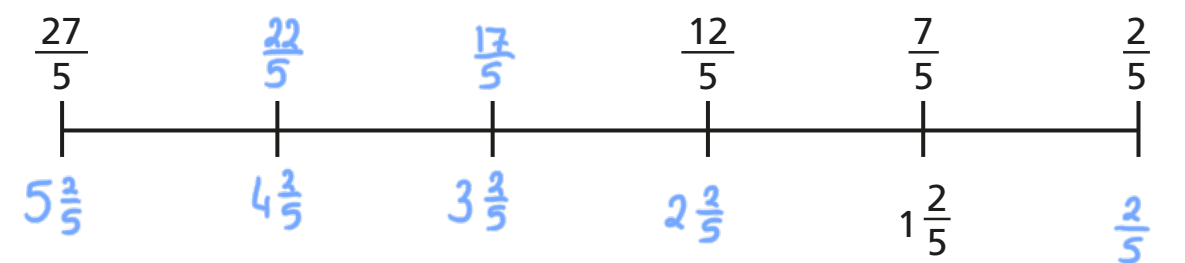
a)



b)



c)



3 Write the next three fractions in each sequence.

a)  $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \boxed{\frac{4}{8}}, \boxed{\frac{5}{8}}, \boxed{\frac{6}{8}}$

b)  $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \boxed{\frac{4}{4}}, \boxed{\frac{5}{4}}, \boxed{\frac{6}{4}}$

c)  $\frac{1}{4}, \frac{3}{4}, 1\frac{1}{4}, \boxed{1\frac{3}{4}}, \boxed{2\frac{1}{4}}, \boxed{2\frac{3}{4}}$

d)  $4, 3\frac{1}{3}, 2\frac{2}{3}, \boxed{2}, \boxed{1\frac{1}{3}}, \boxed{\frac{2}{3}}$

4 What is the missing fraction?

Give two possible answers.

a)  $\frac{8}{3}, \frac{12}{3}, \frac{16}{3}, \frac{20}{3}, \boxed{\phantom{\frac{24}{3}}}, \frac{28}{3}, \frac{32}{3}$

$\boxed{\frac{24}{3}}$

$\boxed{8}$

b)  $\frac{8}{5}, \frac{12}{5}, \frac{16}{5}, \frac{20}{5}, \boxed{\phantom{\frac{24}{5}}}, \frac{28}{5}, \frac{32}{5}$

$\boxed{\frac{24}{5}}$

$\boxed{4\frac{4}{5}}$

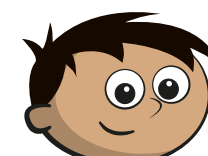
c)  $\frac{8}{7}, \frac{12}{7}, \frac{16}{7}, \frac{20}{7}, \boxed{\phantom{\frac{24}{7}}}, \frac{28}{7}, \frac{32}{7}$

$\boxed{\frac{24}{7}}$

$\boxed{3\frac{3}{7}}$

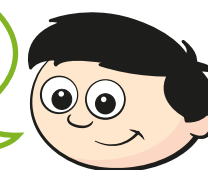
5 Amir, Dexter and Dora are counting in fractions.

$\frac{8}{10}, \frac{9}{10}, \frac{10}{10}, \frac{11}{10}$



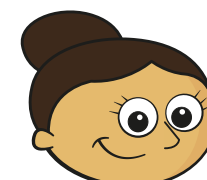
Amir

The next fraction  
is  $\frac{12}{10}$



Dexter

The next fraction  
is  $1\frac{2}{10}$



Dora

The next fraction  
is  $1\frac{1}{5}$

a) Who is correct? All

Explain your answer.

They are all equivalent.

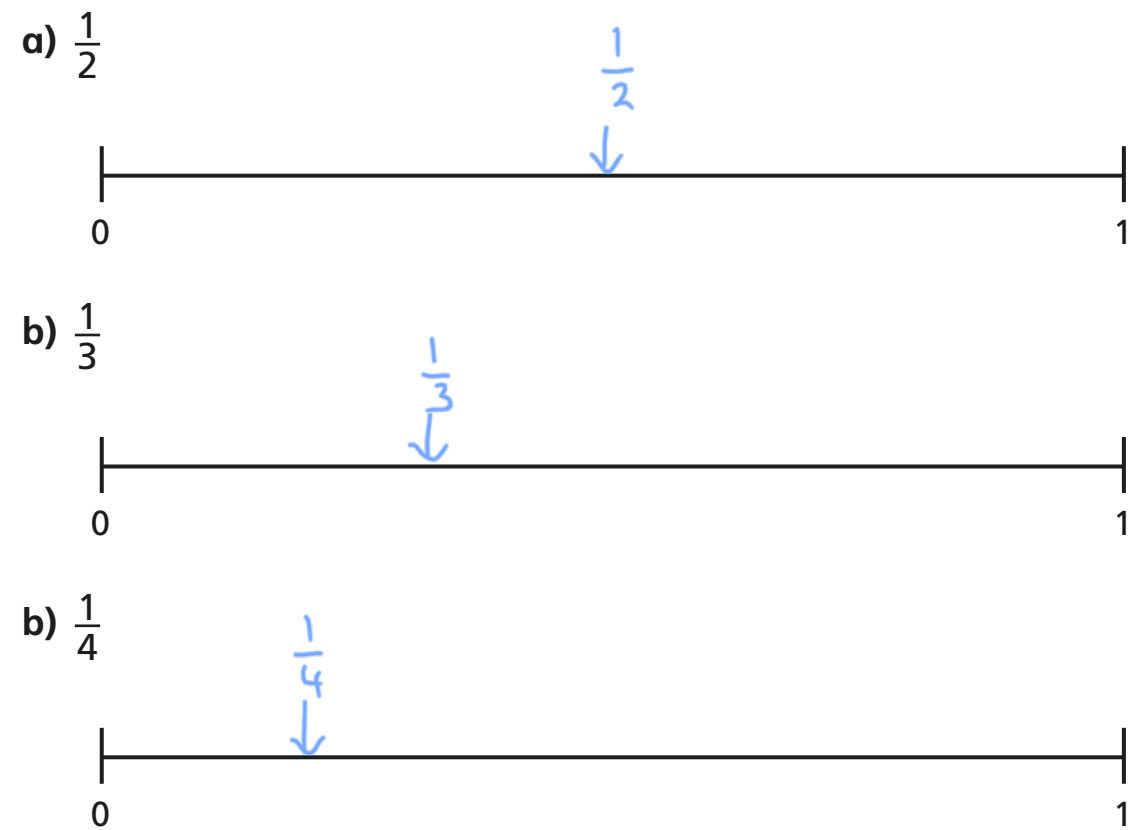
b) Compare answers with a partner.



# Fractions on a number line



1 Draw an arrow to show the fractions on the number lines.

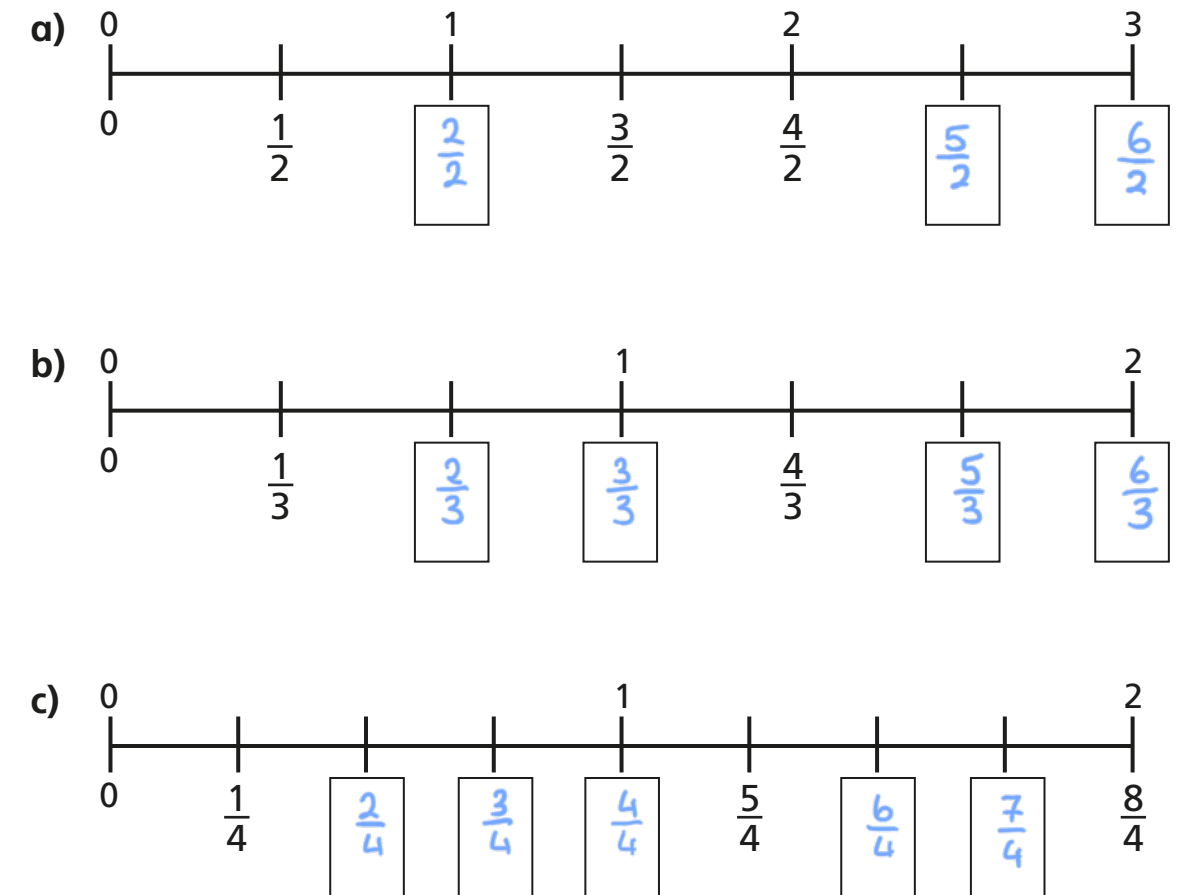


Are your answers accurate or are they estimates?

2 Write  $<$ ,  $>$  or  $=$  to compare the fractions.

- a)  $\frac{1}{2}$   $>$   $\frac{1}{4}$
- b)  $\frac{1}{4}$   $<$   $\frac{1}{3}$
- c)  $\frac{1}{3}$   $<$   $\frac{1}{2}$

3 Write the missing fractions on the number lines.



d) Write three fractions that are equivalent to one whole.  
Use the number lines to help you.

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

What do you notice?

The numerator is equal to the denominator.

Talk about it with a partner.



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



- 5 Write each fraction under the correct heading.

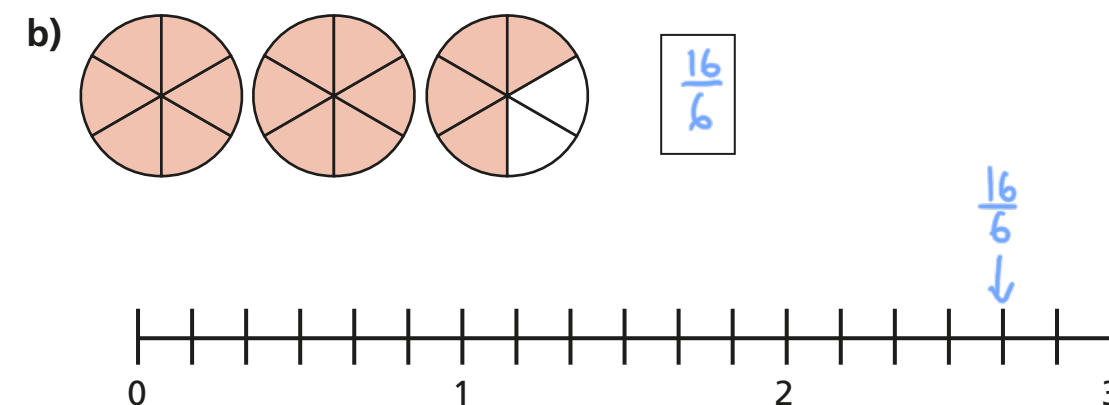
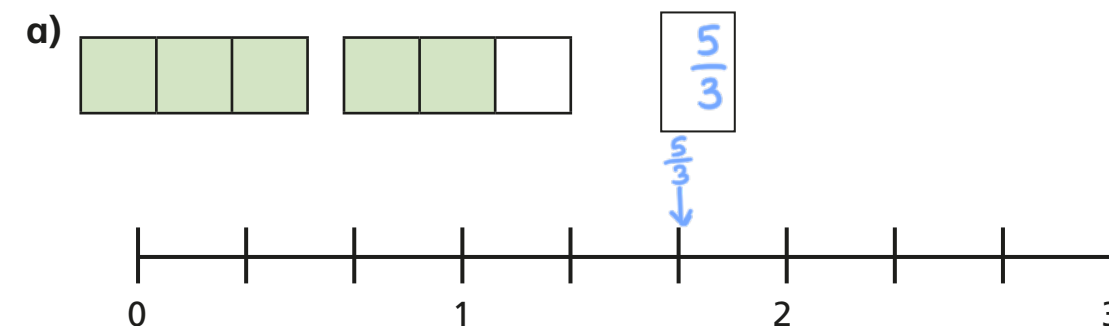
$\frac{2}{3}$	$\frac{4}{4}$	$\frac{5}{3}$	$\frac{1}{8}$	$\frac{3}{3}$
$\frac{3}{4}$	$\frac{7}{4}$	$\frac{8}{8}$	$\frac{7}{8}$	

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



- 6 What fraction is shown in each diagram?

Draw an arrow to show the fraction on the number line.



- 7



One eighth is greater than one quarter.

Do you agree with Teddy? NO

Use the number line to show why.

