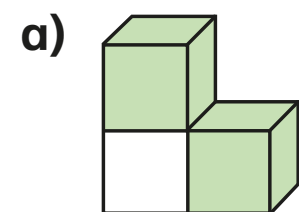


Non-unit fractions

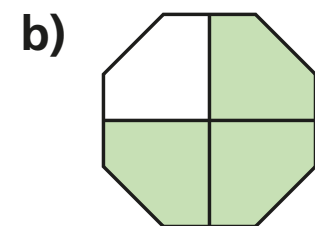
1 Complete the sentences.



There are 3 equal parts.
There are 2 parts shaded.

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

is shaded.

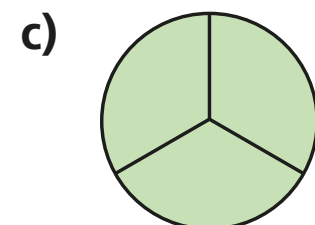


There are 4 equal parts.

There are 3 parts shaded.

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

is shaded.



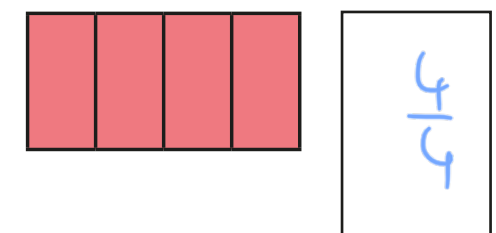
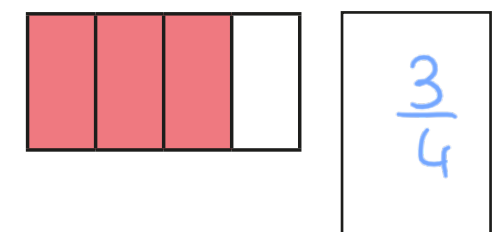
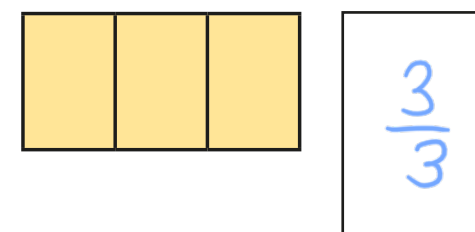
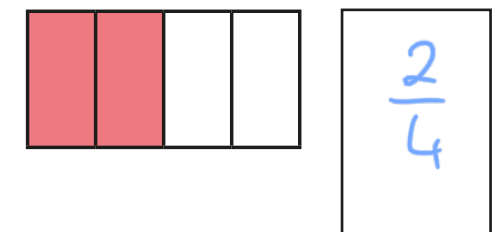
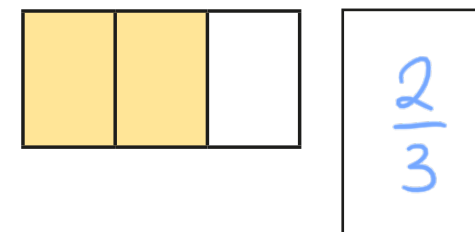
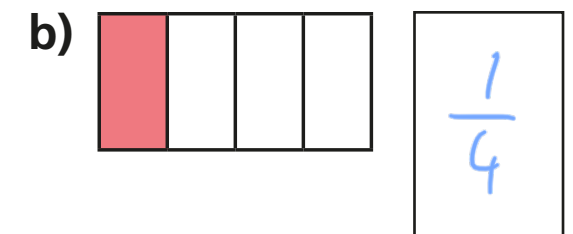
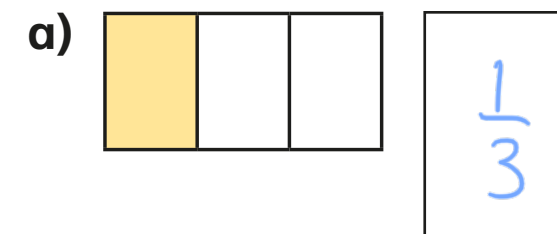
There are 3 equal parts.

There are 3 parts shaded.

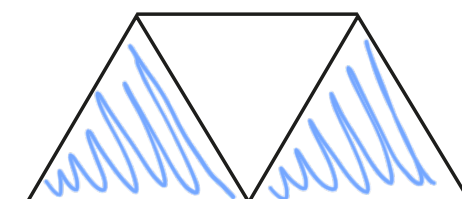
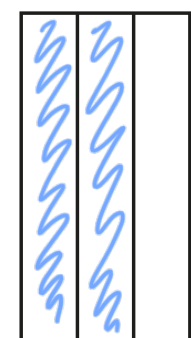
$$\frac{3}{3}$$

is shaded.

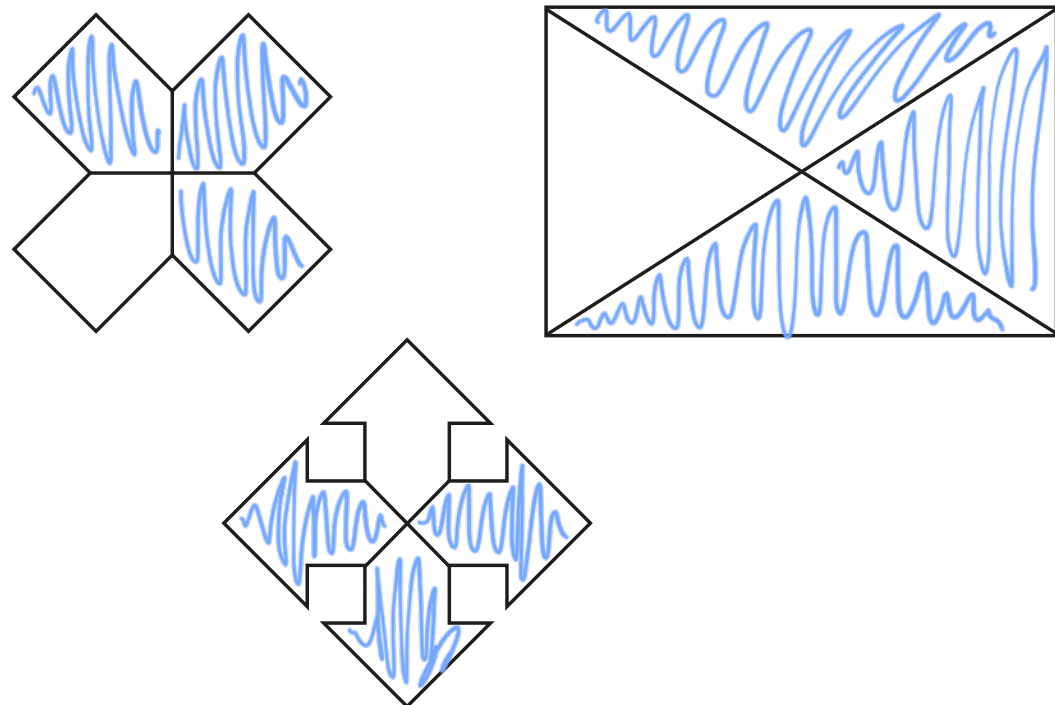
2 What fraction of each shape is shaded?



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



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



- 5 A shape has 3 equal parts.

- a) What fraction is shaded if there are 2 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.

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

Unit fractions	Non-unit fractions
$\frac{1}{3}$ $\frac{1}{2}$ $\frac{1}{4}$	$\frac{3}{4}$ $\frac{2}{3}$

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

unit fraction $\frac{1}{5}$ non-unit fraction $\frac{2}{5}$

Work with a partner.

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

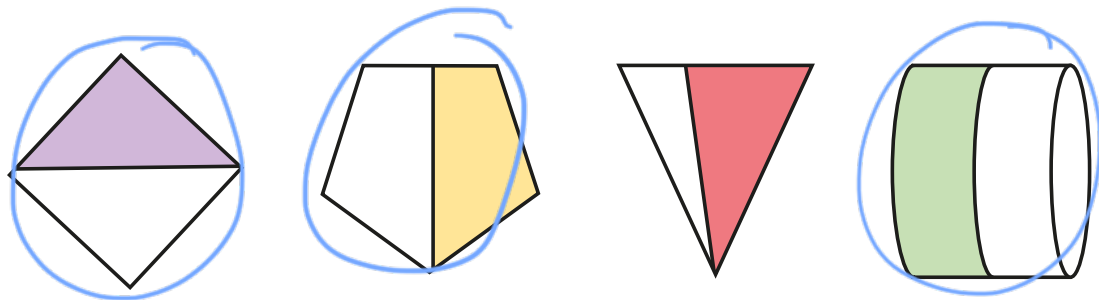
Write five examples of each.

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

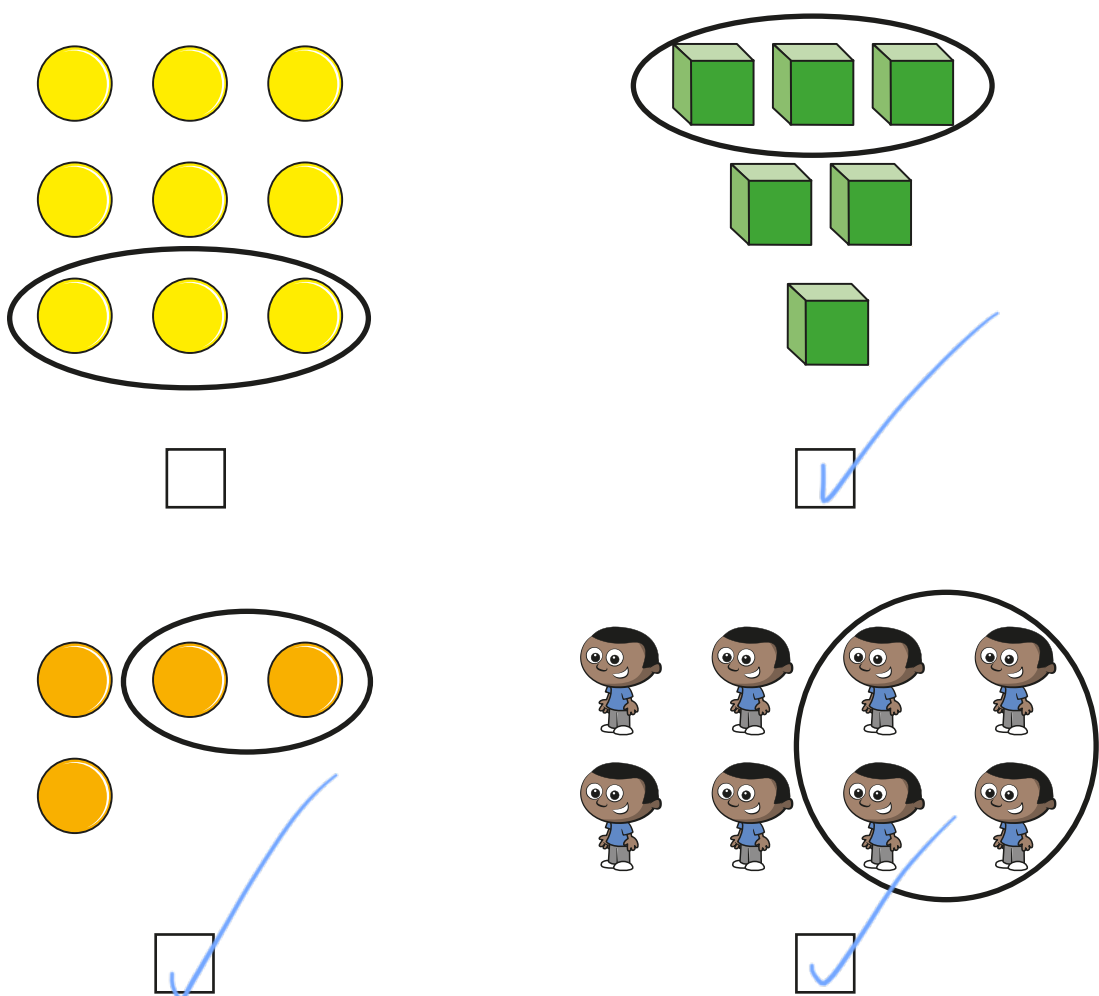
non-unit fractions: $\frac{2}{7}$ $\frac{3}{11}$ $\frac{4}{100}$ $\frac{5}{17}$ $\frac{6}{99}$

Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$

- 1 Circle the shapes that have $\frac{1}{2}$ shaded.



- 2 Tick the groups that have $\frac{1}{2}$ circled.



- 3 Here are two bar models.

- a) Colour $\frac{2}{4}$ of the bar model.



- b) Colour $\frac{1}{2}$ of the bar model.



What do you notice? Talk to a partner.

- 4 Use the sweets to help you answer the questions.

- a) What is $\frac{1}{2}$ of 12?

6



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

3

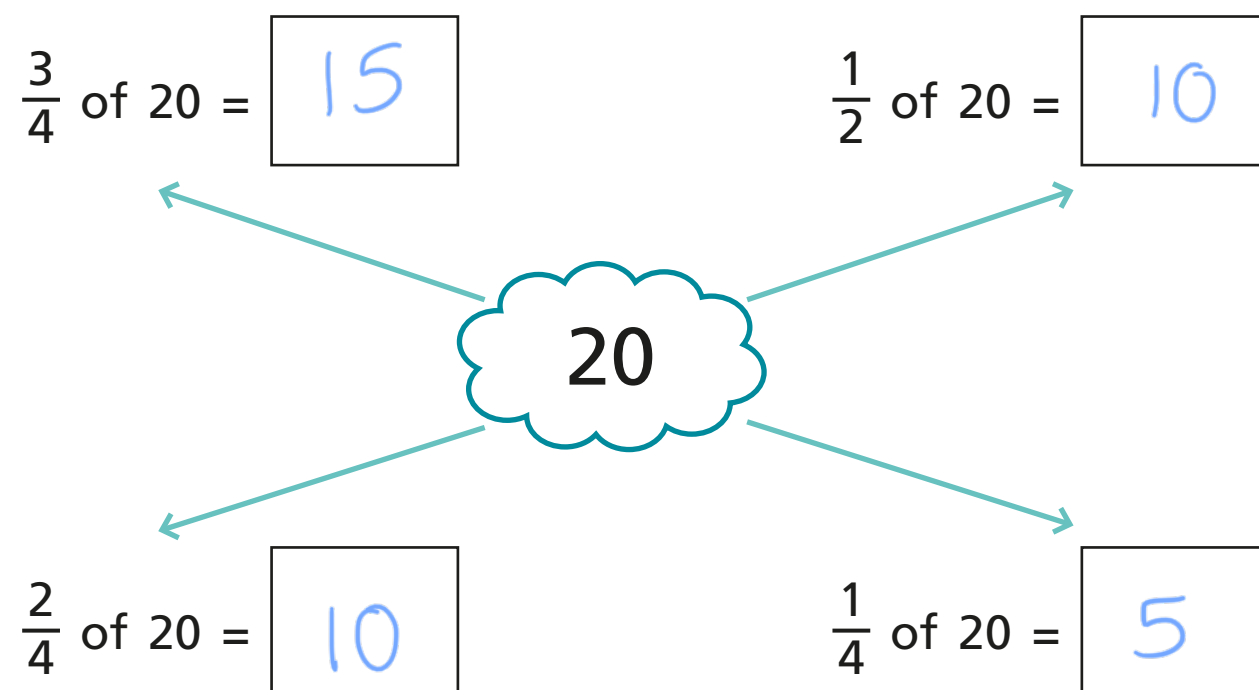


- c) What is $\frac{2}{4}$ of 12?

6



5 Write the missing numbers.



6 Solve the problems.

a) Find $\frac{2}{4}$ of £8

£ 4

b) Find $\frac{2}{4}$ of 24 kg

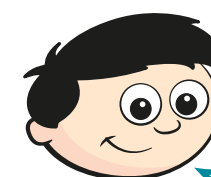
12 kg

How did you work out the answers?

7 Write the missing number.

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

8



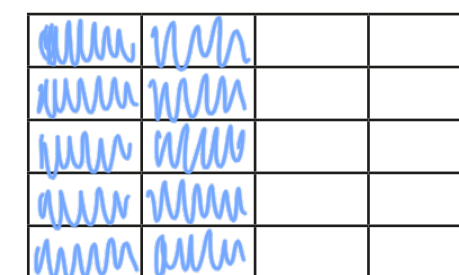
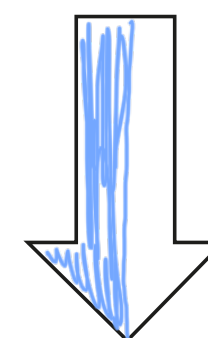
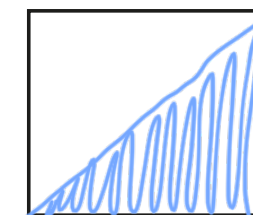
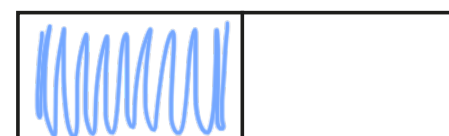
You cannot find $\frac{2}{4}$ of this shape as you cannot divide it into 4 equal parts.



a) Do you agree with Dexter? No

Talk about it with a partner.

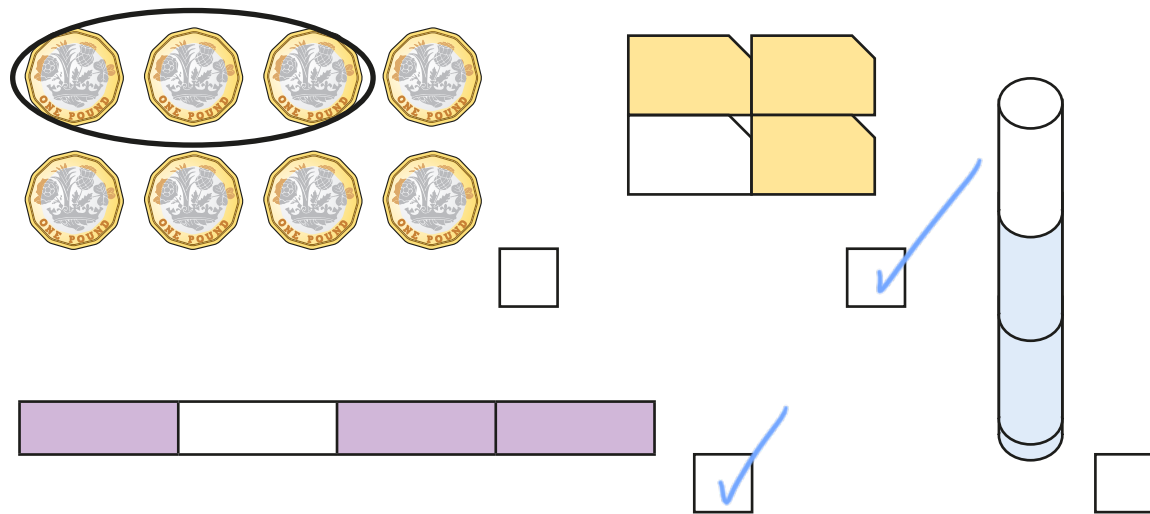
b) Colour $\frac{2}{4}$ of each shape.



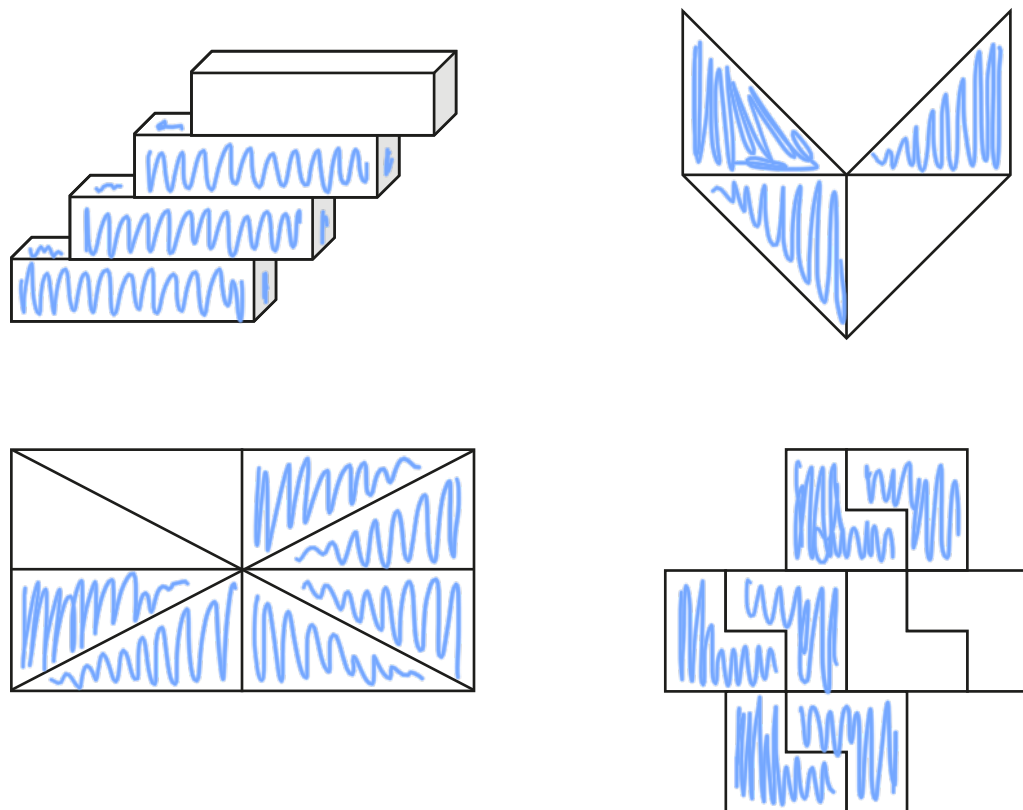
Talk to a partner about how you did it.

Find three quarters

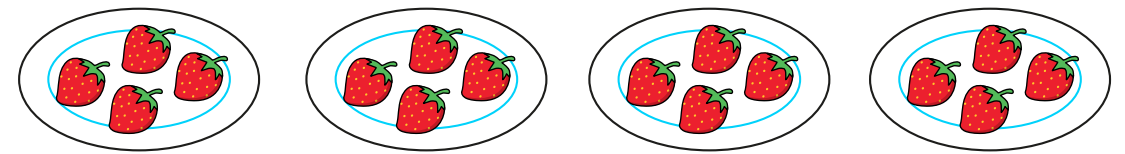
- 1 Tick the representations that show $\frac{3}{4}$



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



- 3 Rosie is sharing out 16 strawberries.
She shares them into 4 equal groups.



- a) What is $\frac{1}{4}$ of the strawberries?

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

- b) What is $\frac{2}{4}$ of the strawberries?

$$\frac{2}{4} \text{ of } 16 = 8$$

- c) What is $\frac{3}{4}$ of the strawberries?

$$\frac{3}{4} \text{ of } 16 = 12$$

- d) What is $\frac{4}{4}$ of the strawberries?

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

- 4 Work out $\frac{3}{4}$ of £20



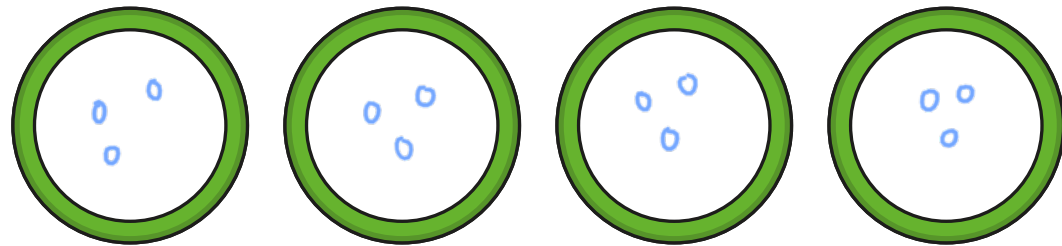
£ 15

- 5 Year 2 are planting sunflower seeds.

Annie has 4 pots and 12 seeds.

She plants the same number of seeds in each pot.

- a) Draw the seeds she puts in each pot.

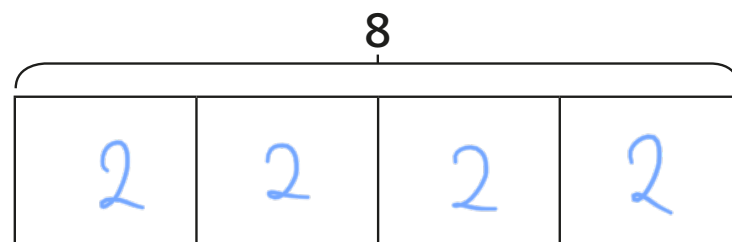


- b) Complete the number sentences.

$$\frac{1}{4} \text{ of } 12 = \boxed{3} \quad \frac{3}{4} \text{ of } 12 = \boxed{9}$$

- 6 The bar model is split into 4 equal parts.

- a) What is the value of each part?
Label it on the bar model.

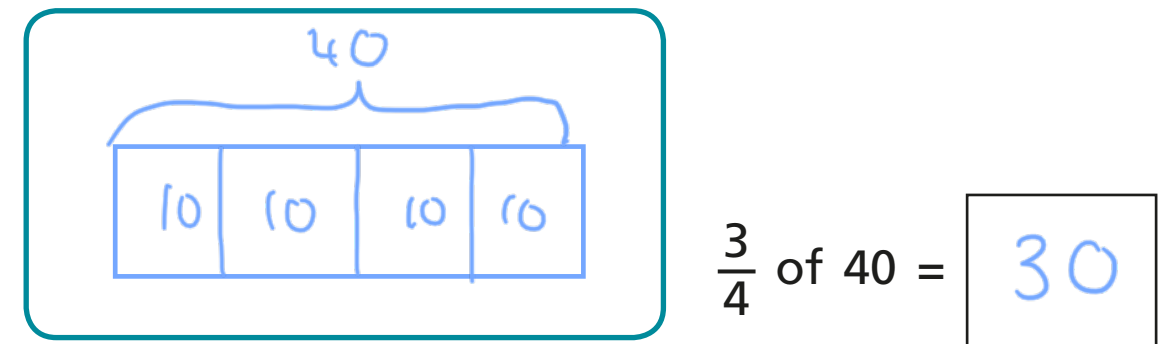


- b) Use the bar model to find $\frac{3}{4}$ of 8

$\boxed{6}$



- 7 Draw a bar model to find $\frac{3}{4}$ of 40



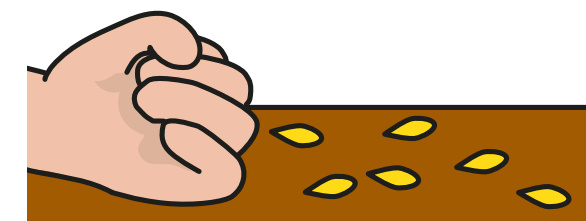
- 8 Write $<$, $>$ or $=$ to compare the statements.

a) $\frac{1}{4}$ of 4 $\boxed{<}$ $\frac{3}{4}$ of 4

b) $\frac{1}{2}$ of 20 $\boxed{<}$ $\frac{3}{4}$ of 20

- 9 Scott has some seeds.

He puts $\frac{3}{4}$ of the seeds into his hand.



He puts the rest of the seeds on the table.

How many seeds does Scott have in his hand?

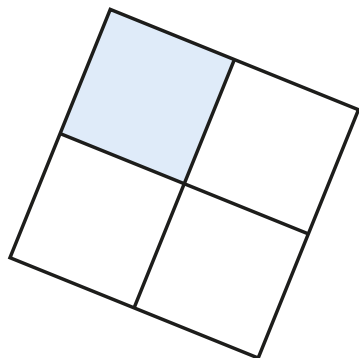
Use a bar model to help you.

$\boxed{18}$



Count in fractions

- 1 Dani colours part of this shape.



- a) What fraction of the shape has Dani coloured?

$$\frac{1}{4}$$

- b) Colour another small square.
What fraction of the shape is now coloured?

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

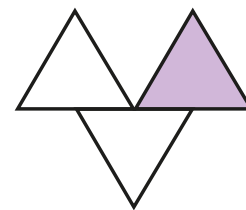
- c) Colour another small square.
What fraction of the shape is now coloured?

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

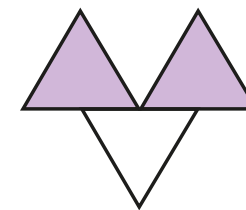
- d) Colour another small square.
What fraction of the shape is now coloured?

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

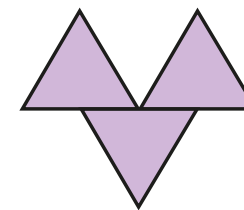
- 2 What fraction of each shape is shaded?



$$\frac{1}{3}$$



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



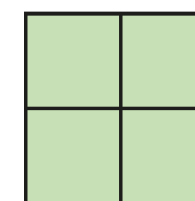
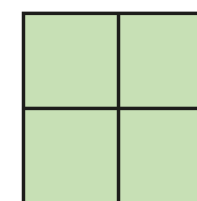
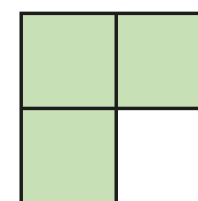
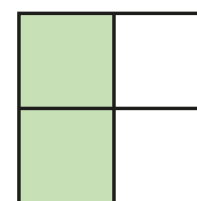
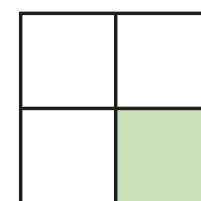
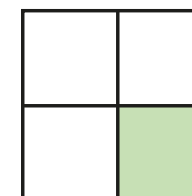
$$\frac{3}{3}$$

Say the fractions out loud to a partner.

- 3 Huan is colouring squares to make a sequence.

What fraction of each diagram is coloured?

Count the fractions out loud and continue the sequence.



$$\frac{1}{4}$$

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

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

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

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

- 4 Aisha is counting pieces of fruit.

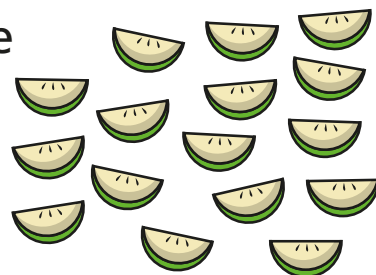
How many strawberries are there altogether?



There are $4\frac{1}{2}$ strawberries.

- 5 The children in the class would like a whole apple each.

How many whole apples can be made from these quarters?



4 whole apples can be made.

- 6 Write the missing fractions.

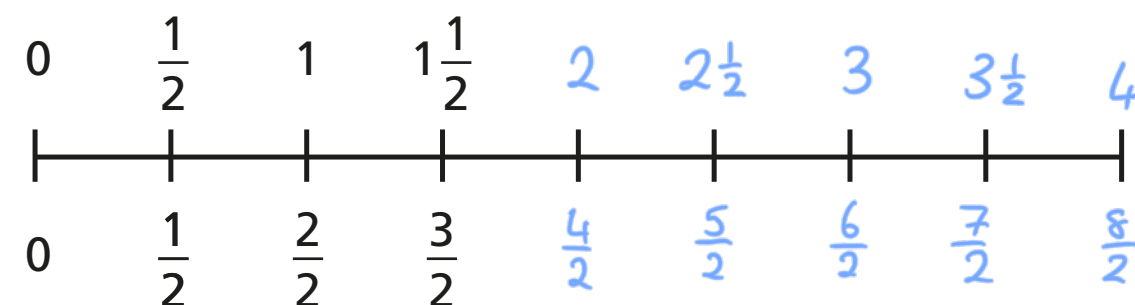
a)

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

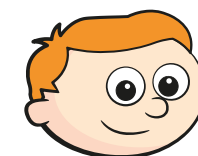
8	$8\frac{1}{4}$	$8\frac{2}{4}$	$8\frac{3}{4}$	9	$9\frac{1}{4}$	$9\frac{2}{4}$	$9\frac{3}{4}$	10
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- 7 Complete the number line.



What is the same? What is different?

- 8 Ron is counting to 3 in thirds.



$0, \frac{1}{3}, \frac{2}{3}, \frac{3}{3}, \frac{4}{3}, \frac{5}{3}, \frac{6}{3}, \frac{7}{3}, \frac{8}{3}, \frac{9}{3}$

Is Ron correct? yes

Use the number line to show how you know this.

