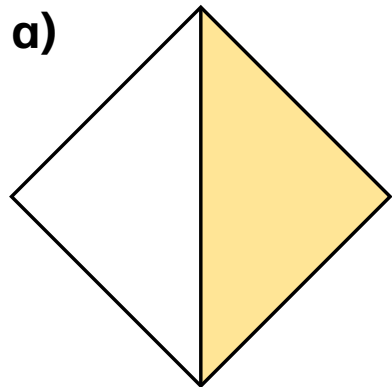# Unit fractions

1 Complete the sentences for each shape.

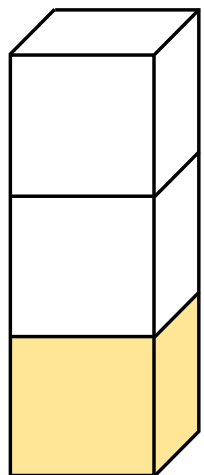**a)**

There are ☐ equal parts.
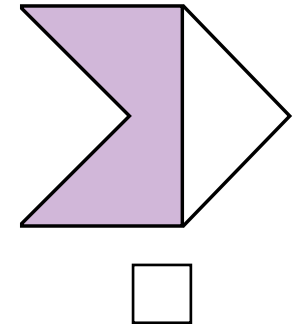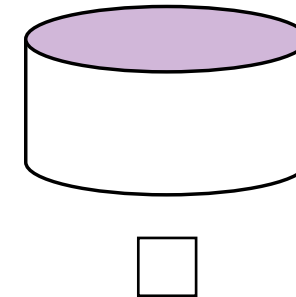
There is ☐ part shaded.

☐ is shaded.

b)

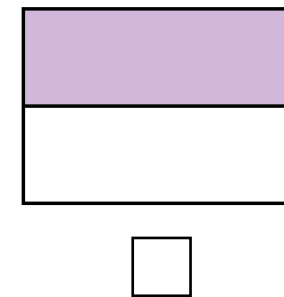There are ☐ equal parts.

There is ☐ part shaded.
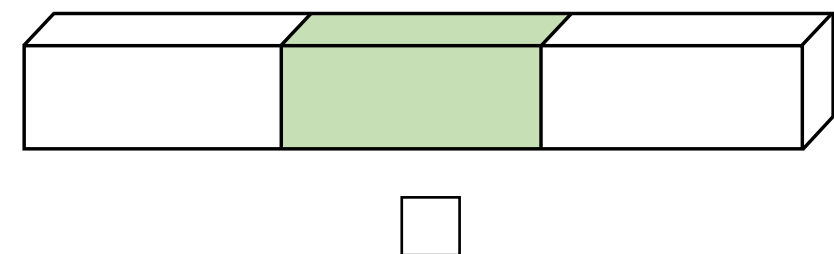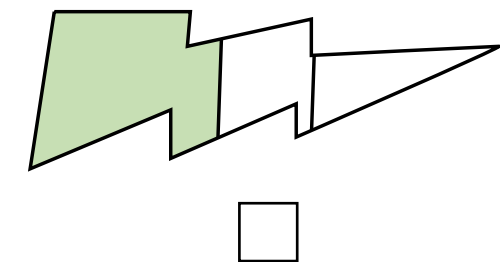
☐ is shaded.
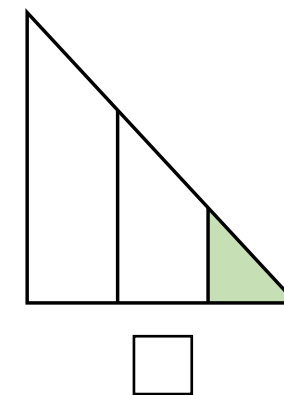
2 There are ☐ equal parts.

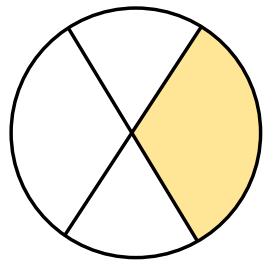There is ☐ part circled.

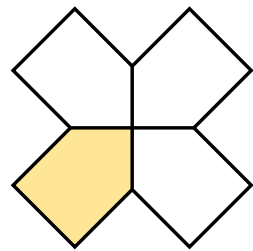☐ is circled.

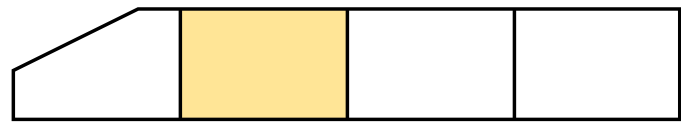3 Tick the shape that has $\frac{1}{2}$ shaded.

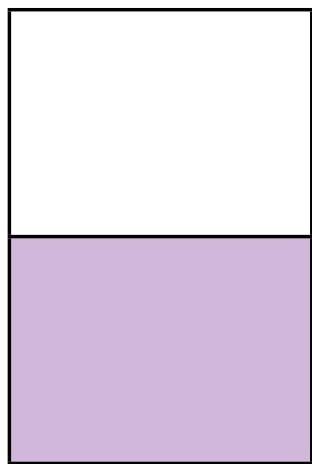☐   ☐   ☐

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

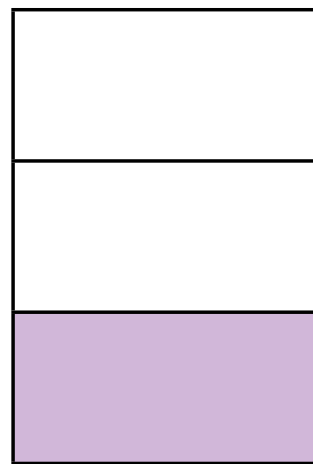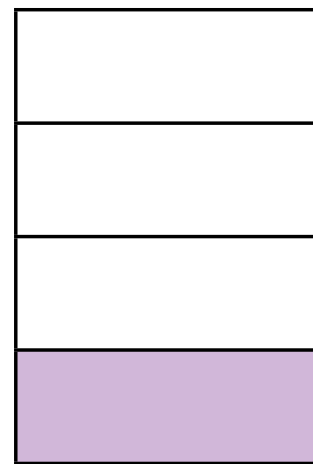☐   ☐

☐

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

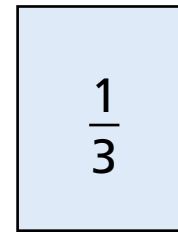☐   ☐

☐

6 What fraction of each shape is shaded?
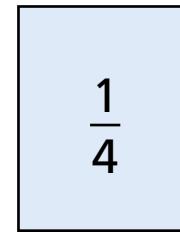

☐   ☐   ☐

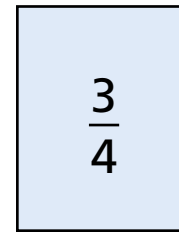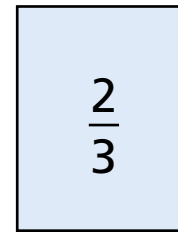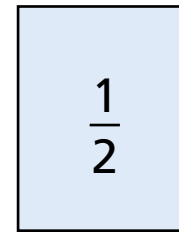What is the same about the fractions?

What is different about them?

7 Here are some fractions.
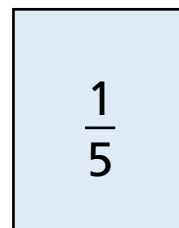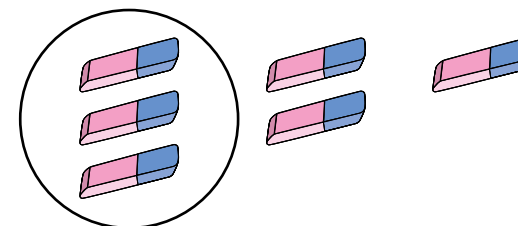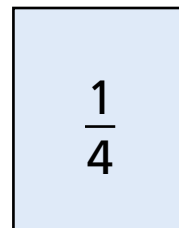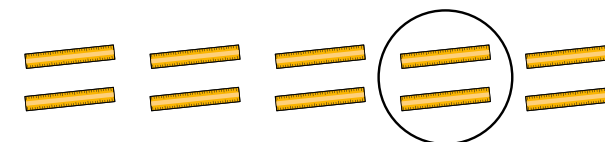
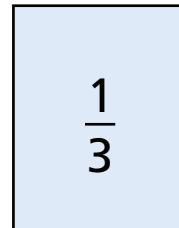| $\frac{1}{2}$ | $\frac{2}{3}$ | $\frac{3}{4}$ | $\frac{1}{4}$ | $\frac{1}{3}$ |

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.

$\frac{1}{2}$

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{1}{5}$
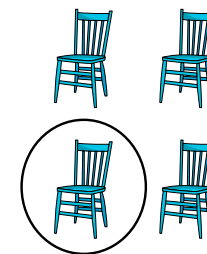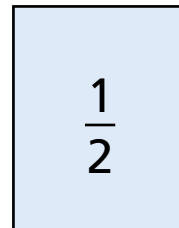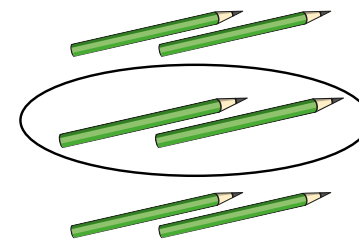
Non-unit fractions

1 Complete the sentences.

a)
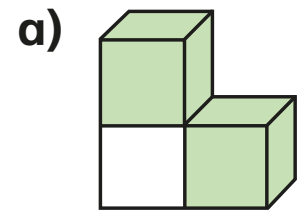
There are 3 equal parts.

There are 2 parts shaded.
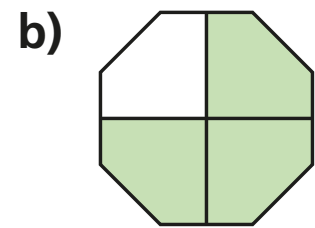
[   ] is shaded.

b)

There are [   ] equal parts.

There are [   ] parts shaded.

[   ] is shaded.

c)
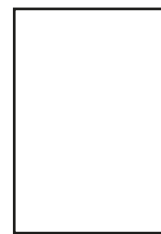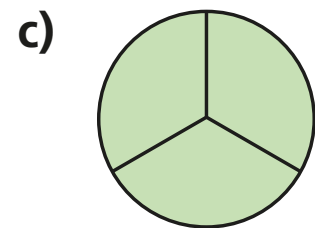
There are [   ] equal parts.

There are [   ] parts shaded.
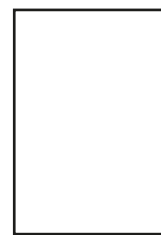
[   ] is shaded.

2 What fraction of each shape is shaded?

a)

b)
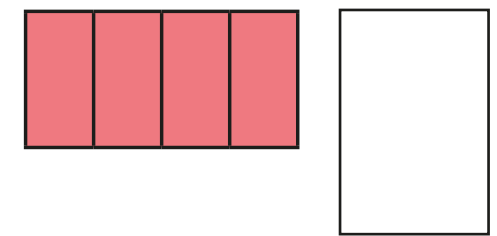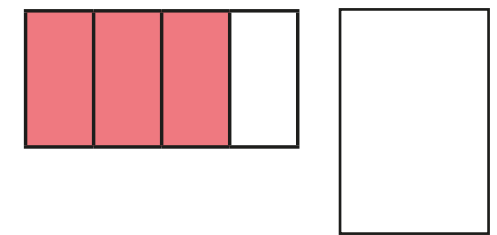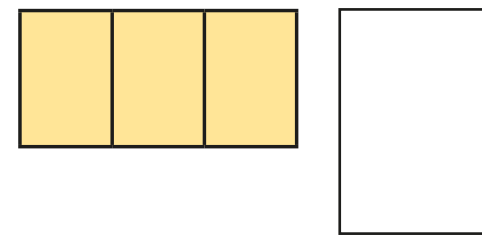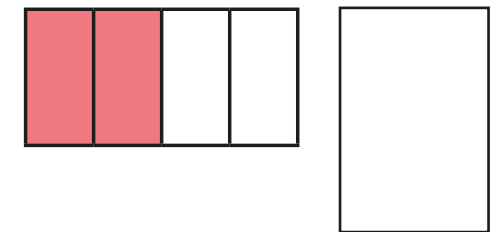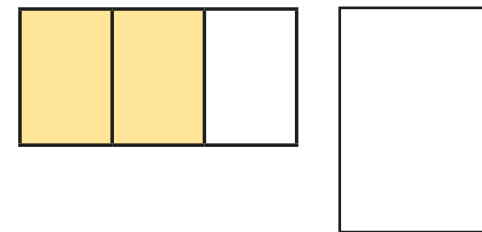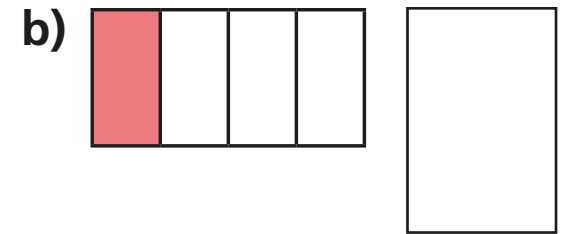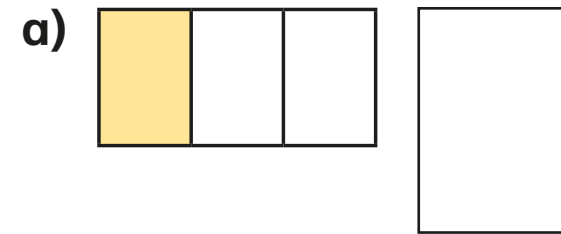
3 Colour $\frac{2}{3}$ of each shape.
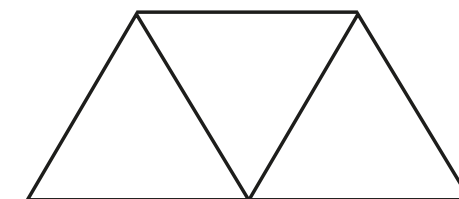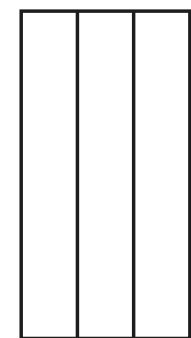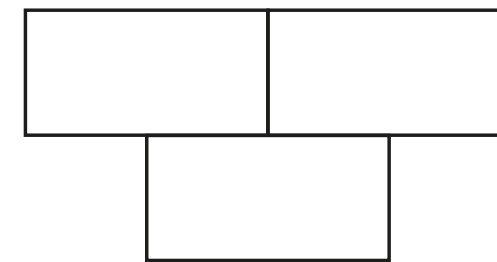
4 Colour $\frac{3}{4}$ of each shape.
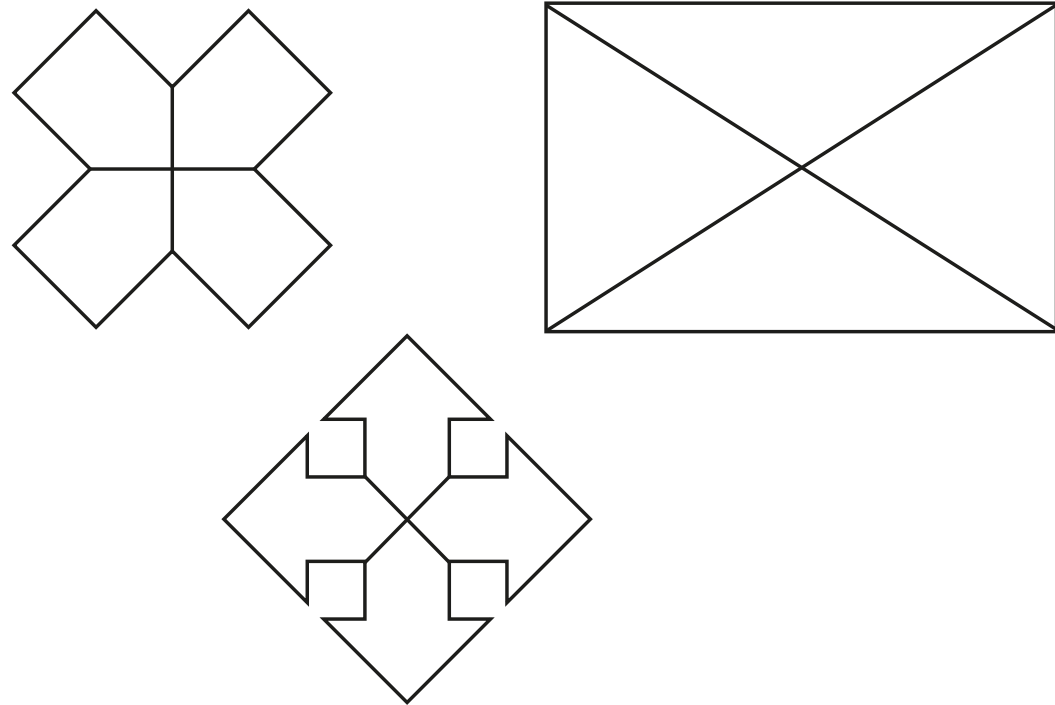
5 A shape has 3 equal parts.

a) What fraction is shaded if there are 2 parts shaded?
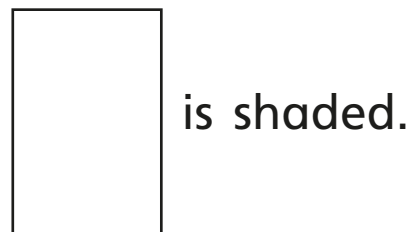
is shaded.

b) What fraction is shaded if there are 3 parts shaded?
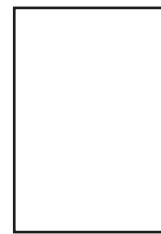
is shaded.
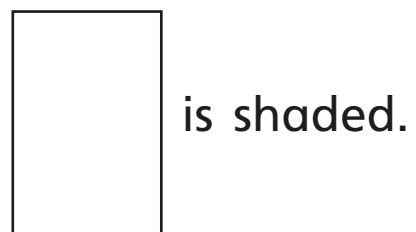
6 Write the fractions in the table.

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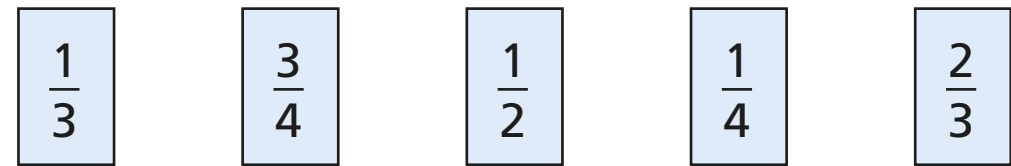
Unit fractions	Non-unit fractions

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

unit fraction $\dfrac{\quad}{5}$ non-unit fraction $\dfrac{\quad}{5}$

Work with a partner.

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

Write five examples of each.

unit fractions: _____

non-unit fractions: _____

Find a half

1 Here are 6 counters.

🔴 🔴 🔴 🔴 🔴 🔴
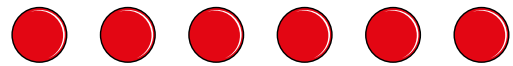
a) Share the counters into 2 equal groups.

Group 1	Group 2
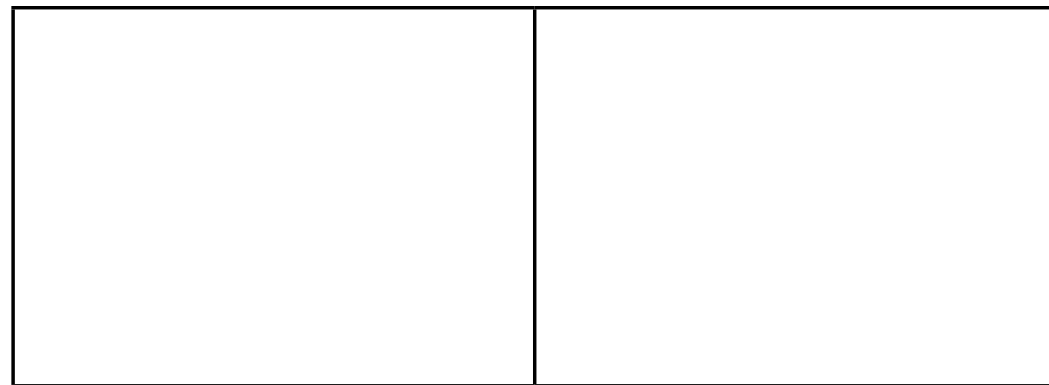
b) Complete the sentences.

There are 6 counters.

The counters are shared equally between ☐ groups.

There are ☐ counters in each group.

$\frac{1}{2}$ of 6 is equal to ☐

2 Use counters.

a) Can you share 10 counters into 2 equal groups? _____

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

Talk about it with a partner.

3 Mo and Eva have 12 tennis balls.
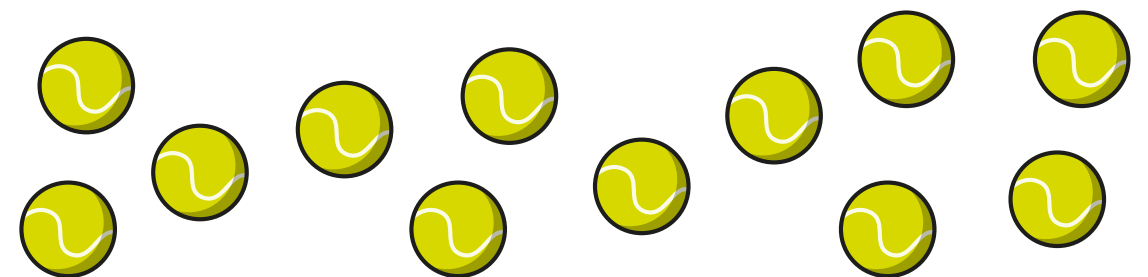
Share the tennis balls equally between Mo and Eva.

Mo ◯   Eva ◯
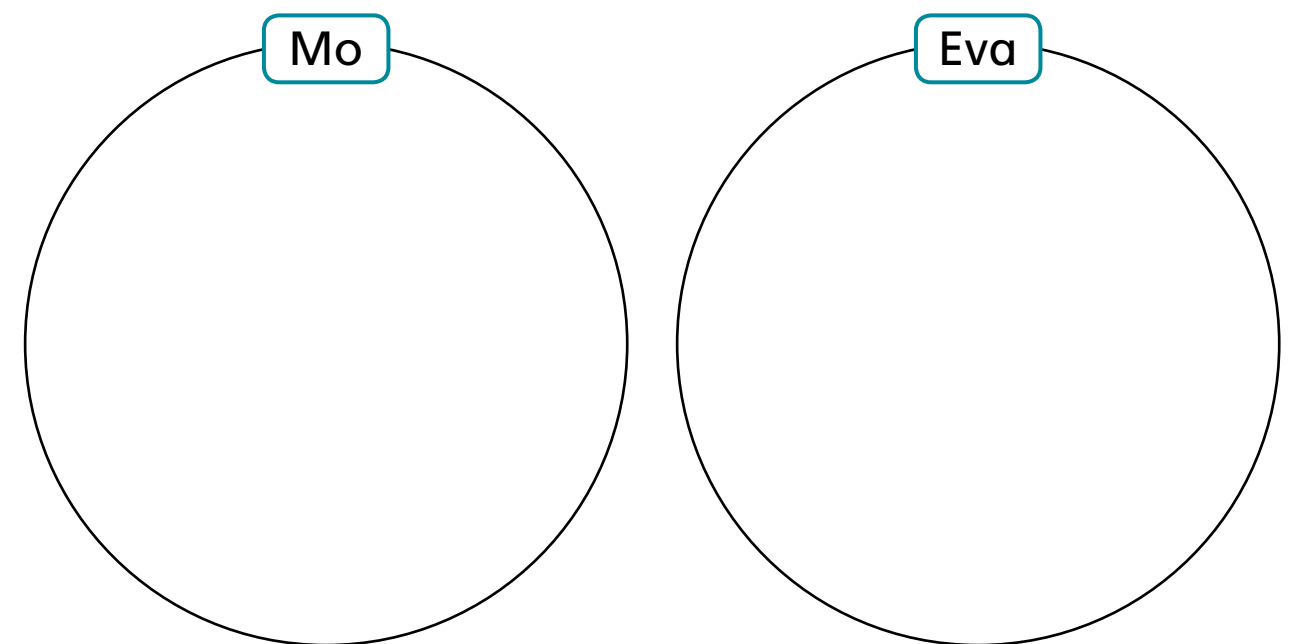
4 Find $\frac{1}{2}$ of each number.

Use the arrays to help you.

a)

$\frac{1}{2}$ of 10 = [   ]

b)

$\frac{1}{2}$ of 16 = [   ]

c)
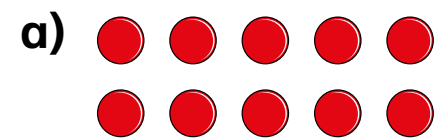
$\frac{1}{2}$ of 20 = [   ]

5 Ron has run 20 m.

Start   **Finish**

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?   [   ] m

6 Here are half of Annie's sweets.

How many sweets does Annie have in total?   [   ]

Compare answers with a partner.

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

Use the shapes to help you complete the number sentences.

a)

$\frac{1}{2}$ of [   ] = [   ]

b)

$\frac{1}{2}$ of [   ] = [   ]

8 Complete the number sentences.

$\frac{1}{2}$ of [   ] = 10 $\frac{1}{2}$ of [   ] = 7

Find a quarter
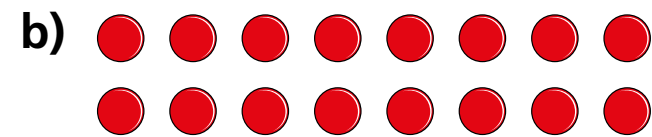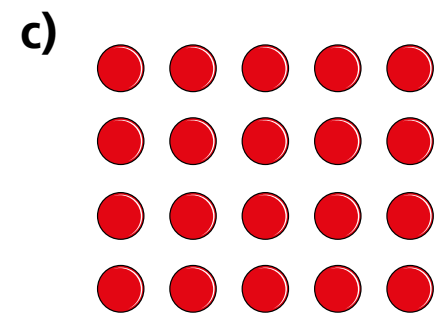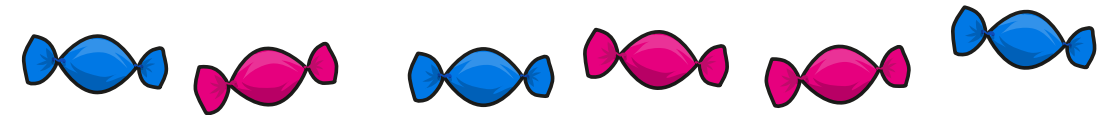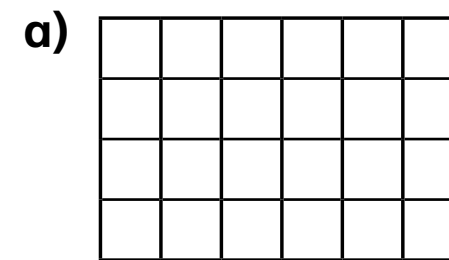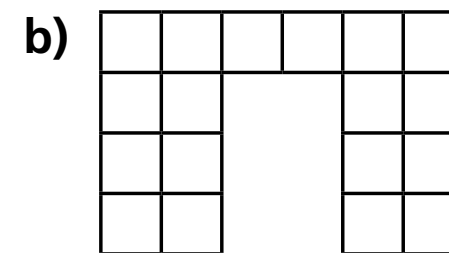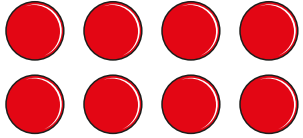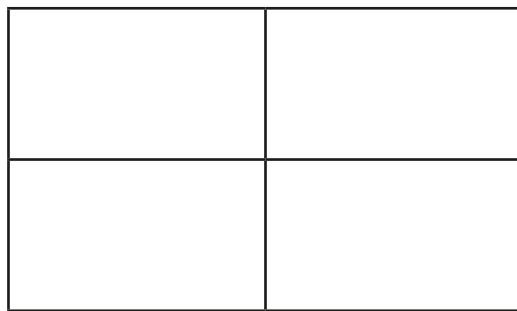
1 Here are 8 counters.

a) Share the counters equally into 4 groups.

b) Complete the sentences.
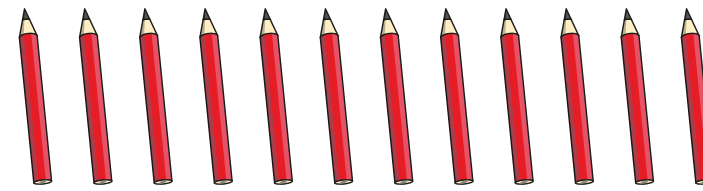
[   ] counters are shared equally

between [   ] groups.

There are [   ] counters in each group.

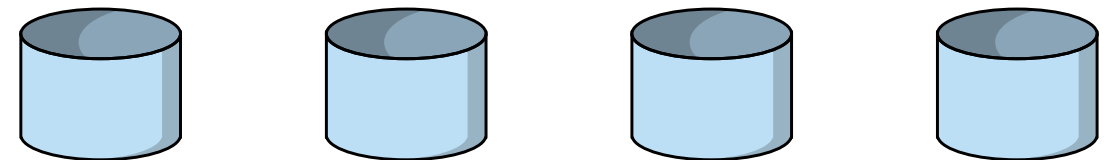c) What is $\frac{1}{4}$ of 8? [   ]

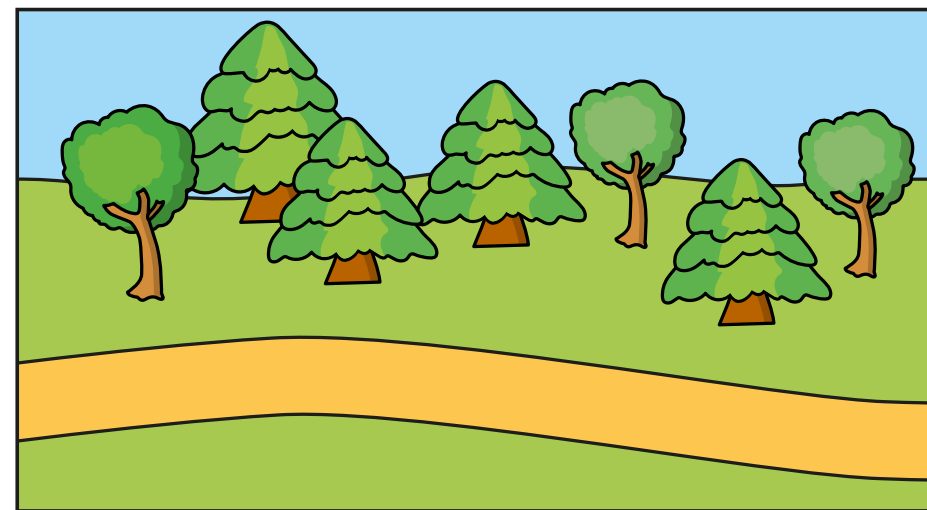How did you work this out?

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.
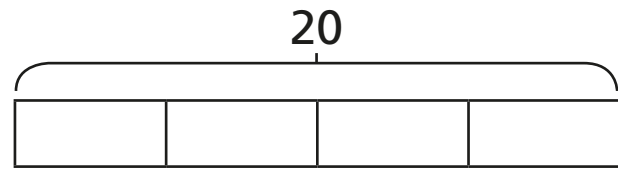Tom has walked a quarter of the way.

a) Draw an arrow to show where Dora is.

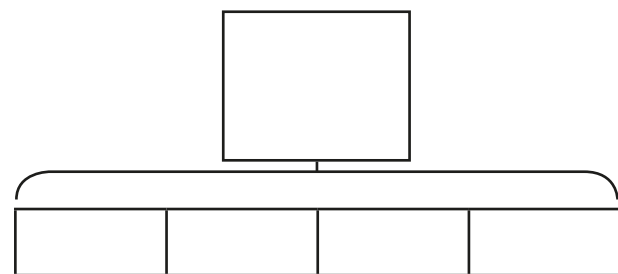b) Draw an arrow to show where Tom is.

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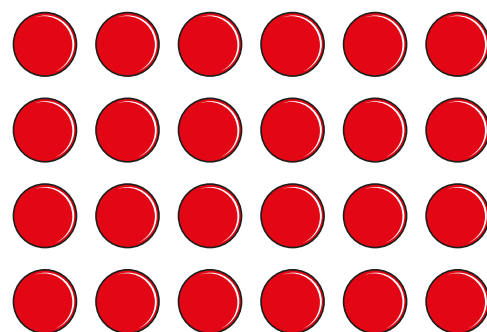
a) Work out $\frac{1}{4}$ of 20

20

$\frac{1}{4}$ of 20 =
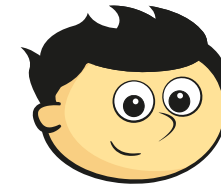
b) Work out $\frac{1}{4}$ of 16

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

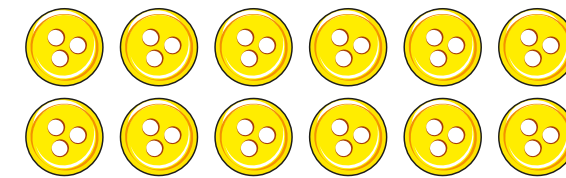**5** Show that $\frac{1}{4}$ of 24 is 6

6 I can find a quarter by halving a number and halving again.
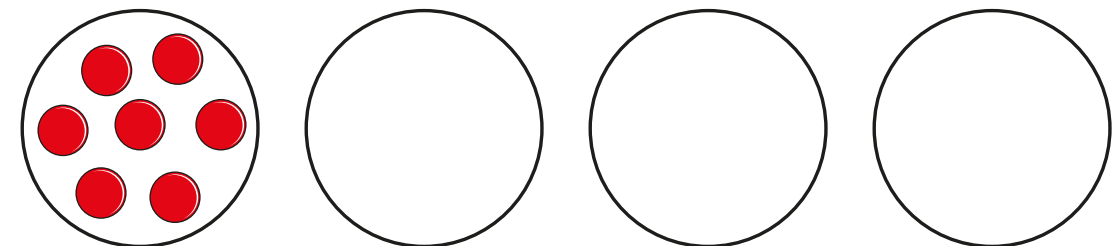
Use this method to find $\frac{1}{4}$ of 12

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

7 Complete the table.

Number	$\frac{1}{2}$ of Number	$\frac{1}{4}$ of Number
8		
20		
24		

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

What is the number?

The number is