Mo and his four friends eat a meal.

They each pay for part of the meal.

Mo pays £5.20

Each of his friends pay £3.80

How much did the meal cost in total?

What fraction of the shape is shaded?

A fish tank holds 30 litres of water.

The fish tank is $\frac{3}{5}$ full.

How much more water is needed to fill the tank?

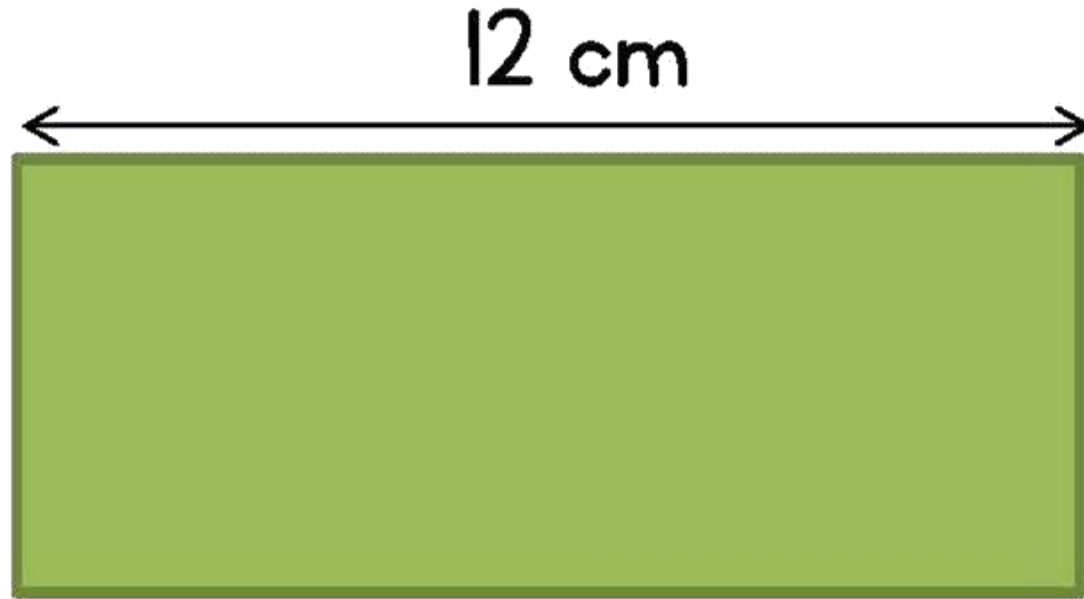Questions by White Rose Maths   Videos powered by

The perimeter of the rectangle is 36 cm.

12 cm

What is the area of the rectangle?

There are 80 red and blue counters in total.

There are 12 more red counters than blue ones.
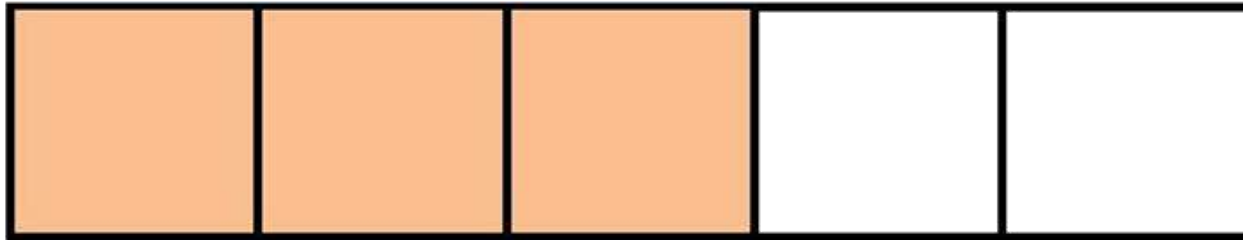
How many red counters are there?

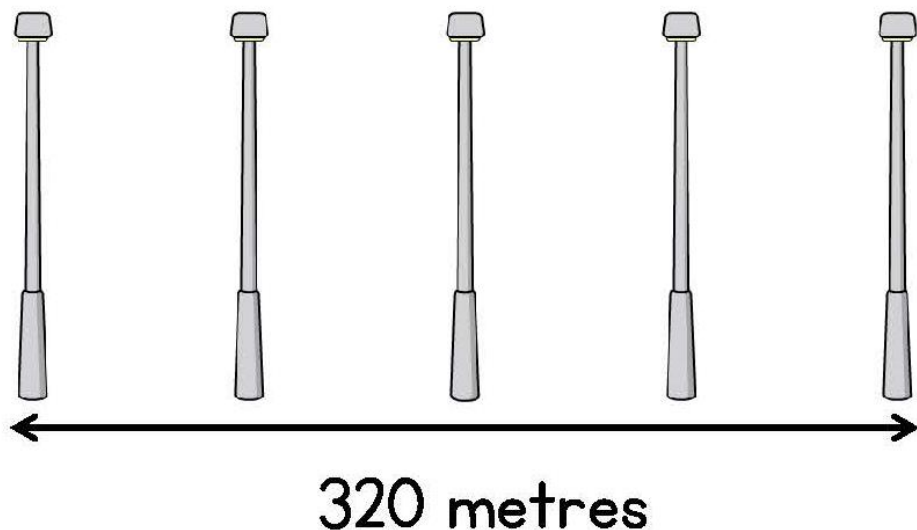How many tenths are there in each of the fractions below?

(a) Three fifths

(b) $3\dfrac{2}{5}$

Five lampposts are equally spaced along a road.

320 metres

The distance between the first and last lamppost is 320 metres.

How many metres are there between the second and last lampposts?

There are 360 people watching a film.

There are 197 adults watching the film.

How many more adults than children are watching the film?

Work out the missing numbers.

50% of ☐ = 30

25% of ☐ = 30

$\frac{2}{3}$ of ☐ = 30

Mr Khan hires a bike on holiday.

The table shows the costs.

Holiday Bikes For Hire

First hour	£12
Every additional half hour	£4.50

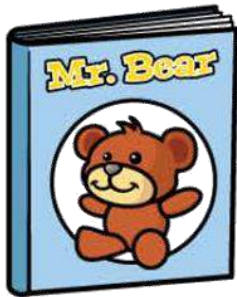Mr Khan hires the bike from 10.45am to 2.15pm.

How much does it cost him to hire the bike?

Freya receives some pocket money.

She spends

- $\frac{1}{5}$ of the money on a book.

- $\frac{3}{4}$ of what she has left on a game.

Freya now has £3.80 left.

How much pocket money did she receive?

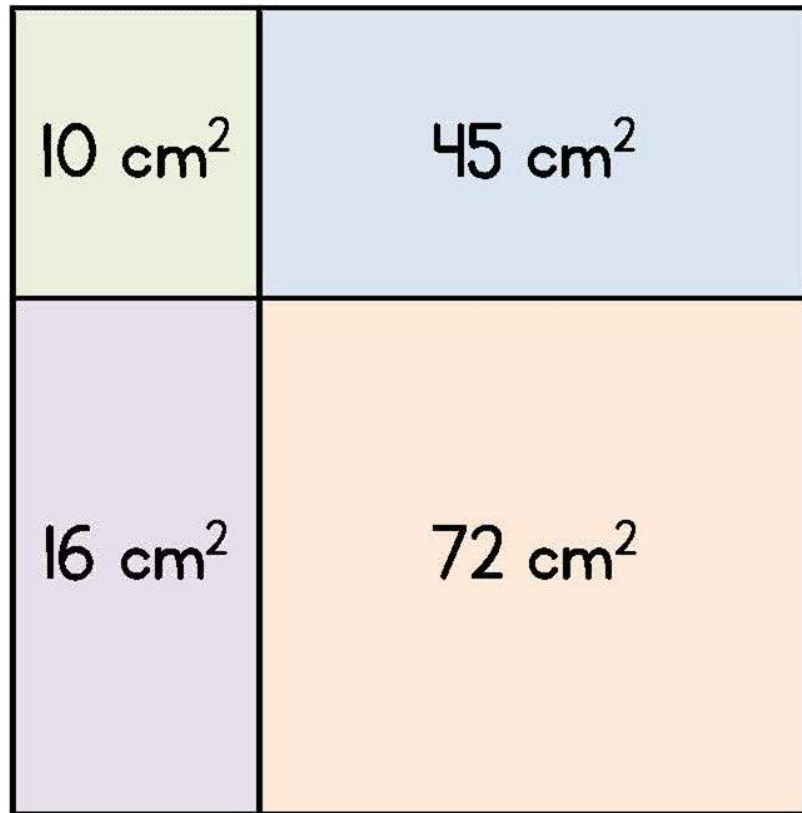A shape is made up of four rectangles.

The area of each rectangle is shown.

10 cm² | 45 cm²

16 cm² | 72 cm²

What is the perimeter of the shape?

Questions by White Rose Maths   Videos powered by

Sam and Zach each have some money.

Sam spends $\frac{1}{4}$ of her money.

Zach spends 90% of his money.

They each have £60 left.

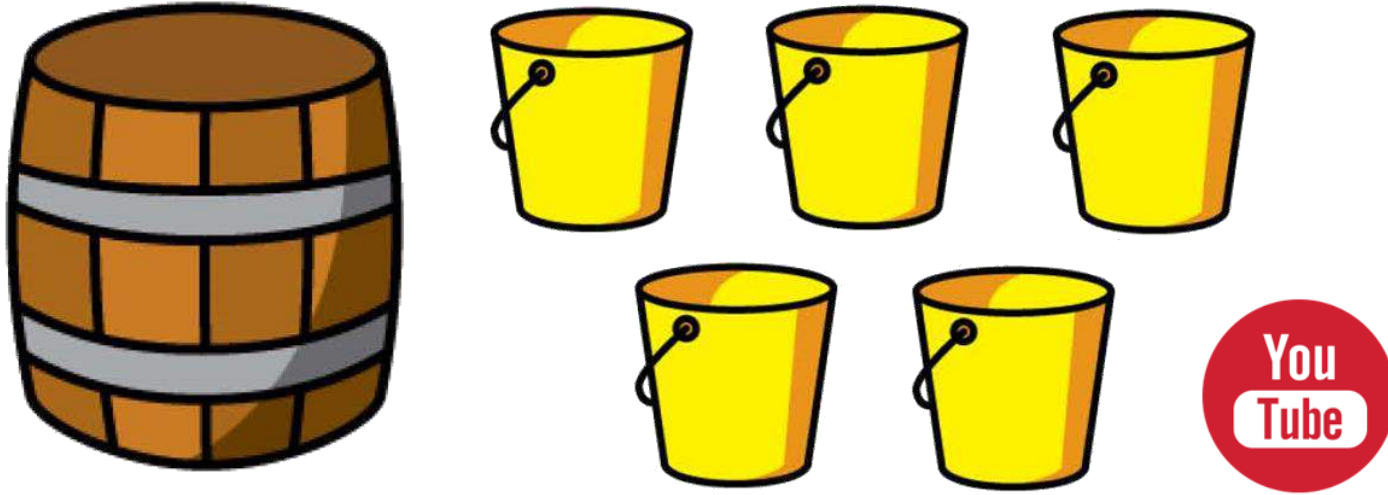How much more money did Zach have at the start than Sam?

A barrel contains 13 l 280 ml of water.

The water is shared equally between 5 buckets.

How much water is in each bucket?

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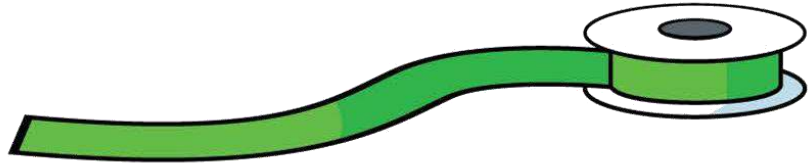
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A piece of ribbon is 5 metres long.

Gina and Liam each use part of the ribbon to wrap a present.

- Gina uses 1.6 metres

- Liam uses 256 cm

The remaining ribbon is cut into 7 pieces of equal length.

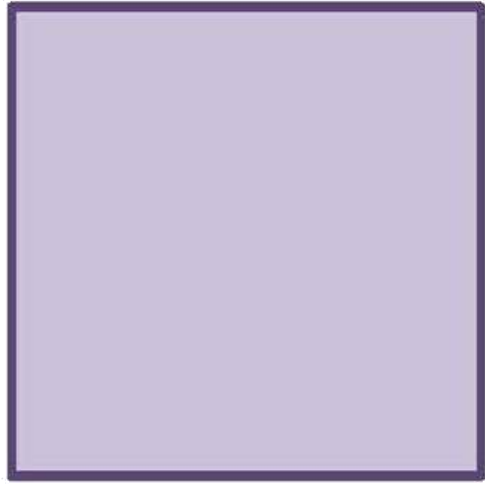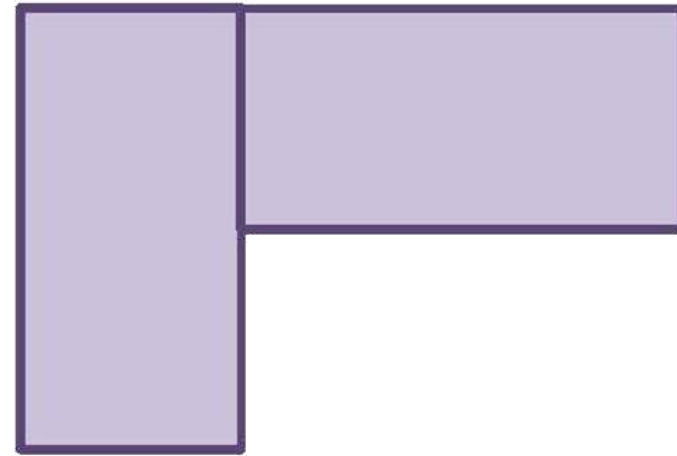How long is each piece of ribbon?

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A square has a perimeter of 48 cm.

The square is cut in half.
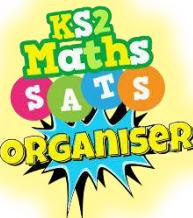
The two halves are put together to make this shape.

What is the perimeter of the new shape?

What number is halfway between -2 and 8?

-2   8

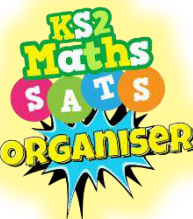Bilal receives some birthday money.

He spends a quarter of it repairing his bike.

He has £24 left.

How much money did he receive for his birthday?

For every £1 coin Brooke has, she has three 5p coins.

Brooke has five £1 coins.

How much money does Brooke have?

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Jake has £6.30 in a moneybox.

He only has 50p and 10p coins.

For every 50p coin in the box, Jake has two 10p coins.

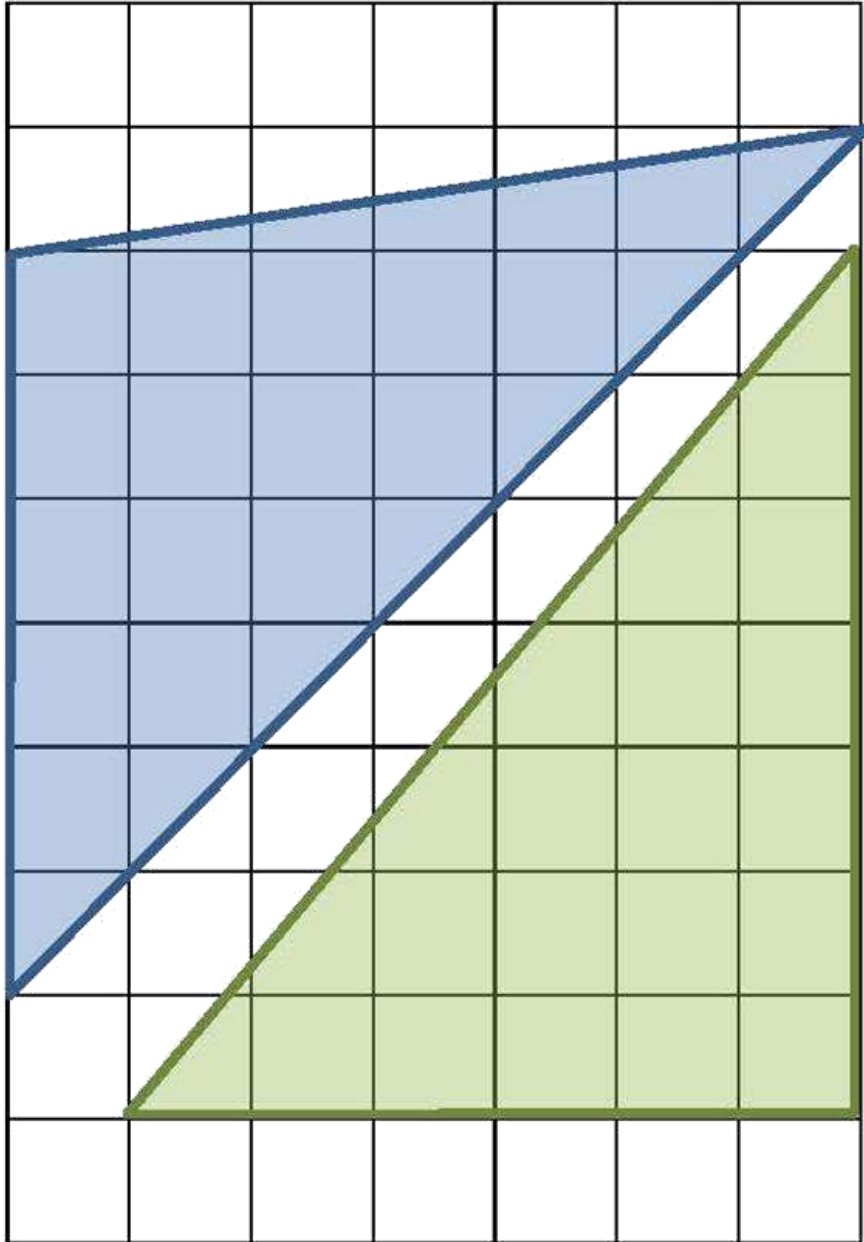How many of each coin does Jake have in his moneybox?

Two triangles are drawn on a centimetre square grid.

The triangles have the same area.

True or false? Prove it.

Henry buys 2.5 kg of potatoes.

He uses $\frac{4}{5}$ kg to make some mash.

What is the mass of potatoes he has left?

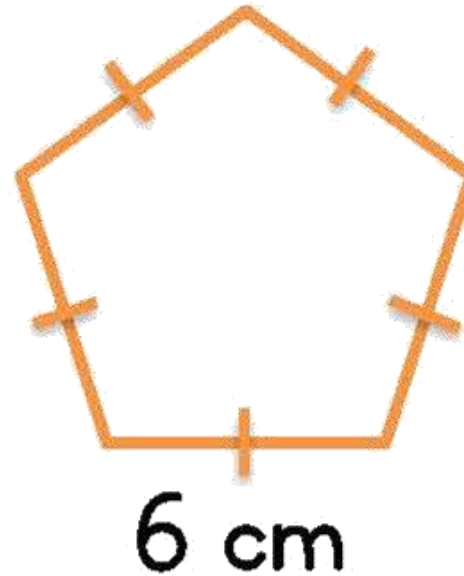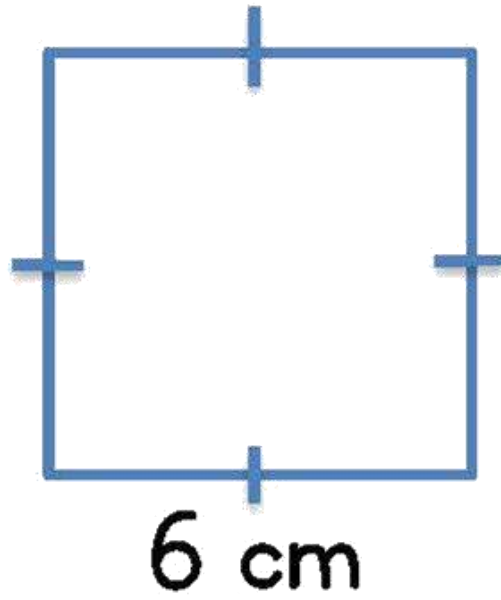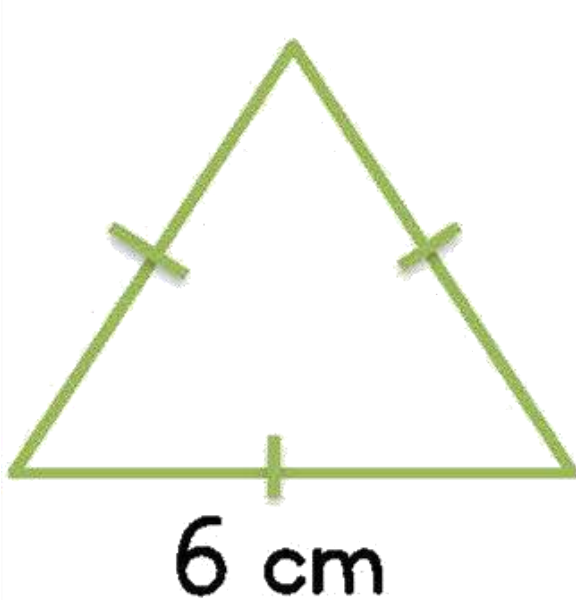What is the mean perimeter of the shapes below?

6 cm

6 cm

6 cm

Questions by White Rose Maths

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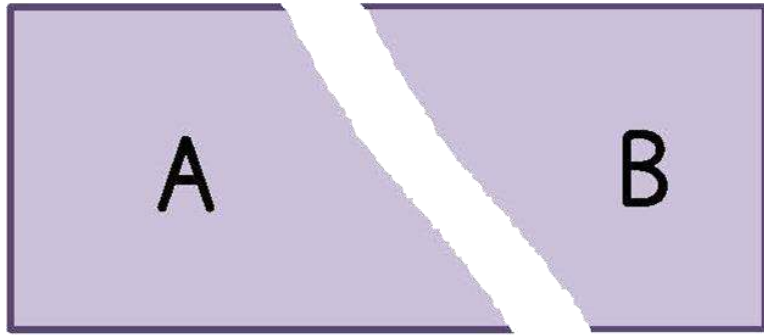
A rectangle is cut into two pieces.

A

B

The area of A is $\frac{5}{8}$ of the area of the rectangle.

The area of A is 28 cm^2 greater than the area of B.
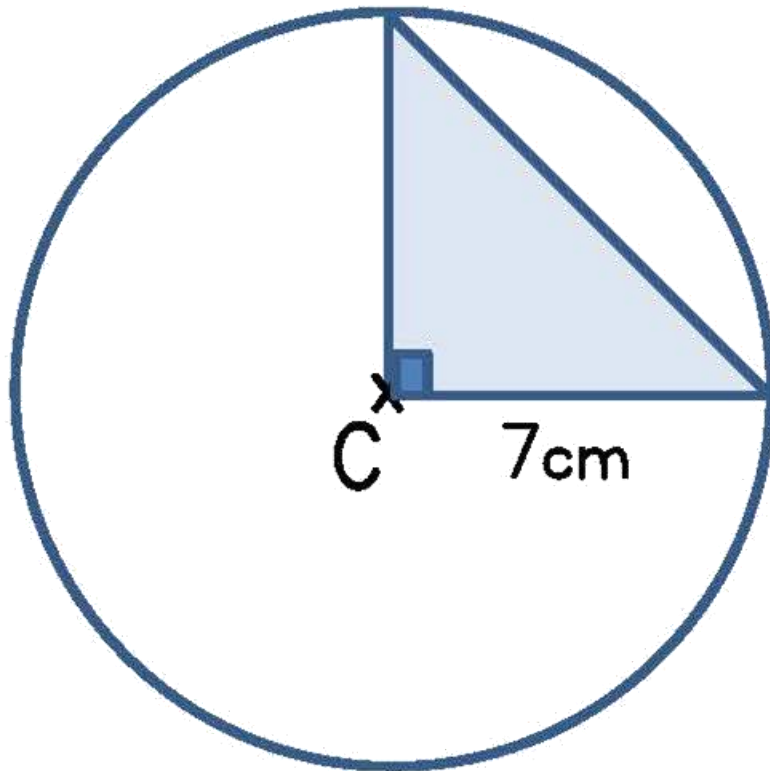
What is the area of the rectangle?

The diagram shows a right-angled triangle inside a circle.

C is the centre of the circle. What is the area of the triangle?

C ⟍ 7cm

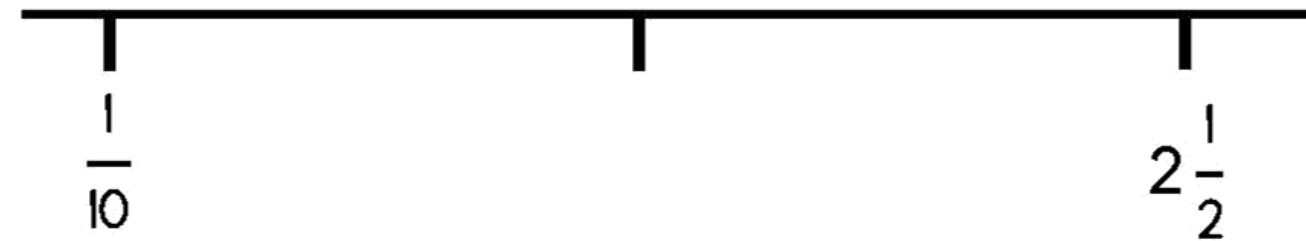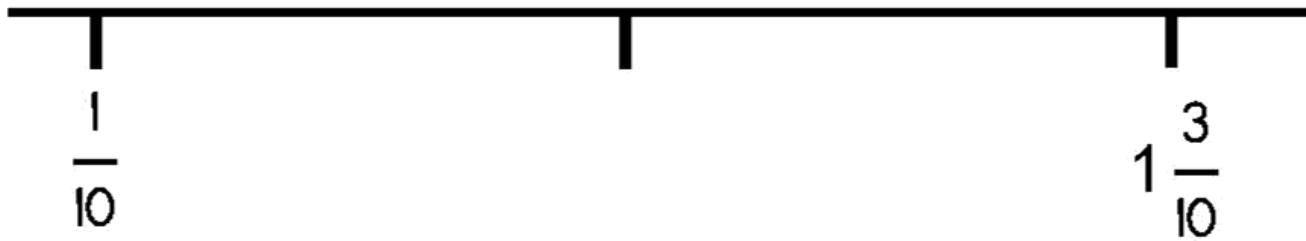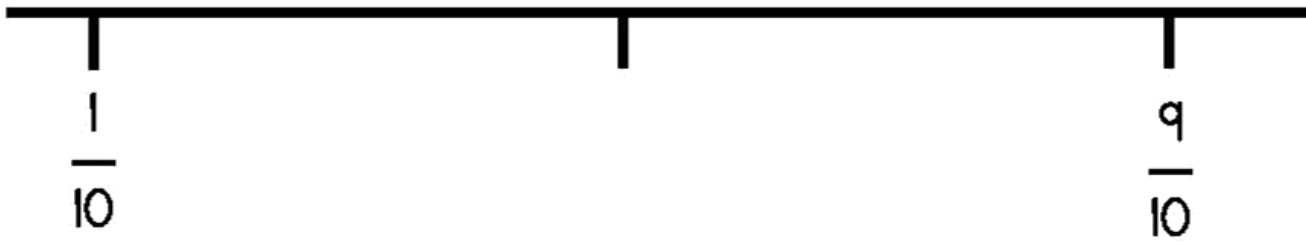Questions by White Rose Maths   Videos powered by   KS2 Maths SATS ORGANISER

Neil has some counters.

Neil gives 40% of his counters to Ben.

He then gives $\frac{1}{2}$ of the remaining

counters to Stacy.

He has 36 counters left.

How many counters did Neil have at the

start?

$\dfrac{1}{10}$ ——————————————————— $\dfrac{9}{10}$

What number lies exactly half way between the numbers shown on each line?

$\dfrac{1}{10}$ ——————————————————— $1\dfrac{3}{10}$

$\dfrac{1}{10}$ ——————————————————— $2\dfrac{1}{2}$

Part of a regular hexagon has been shaded.
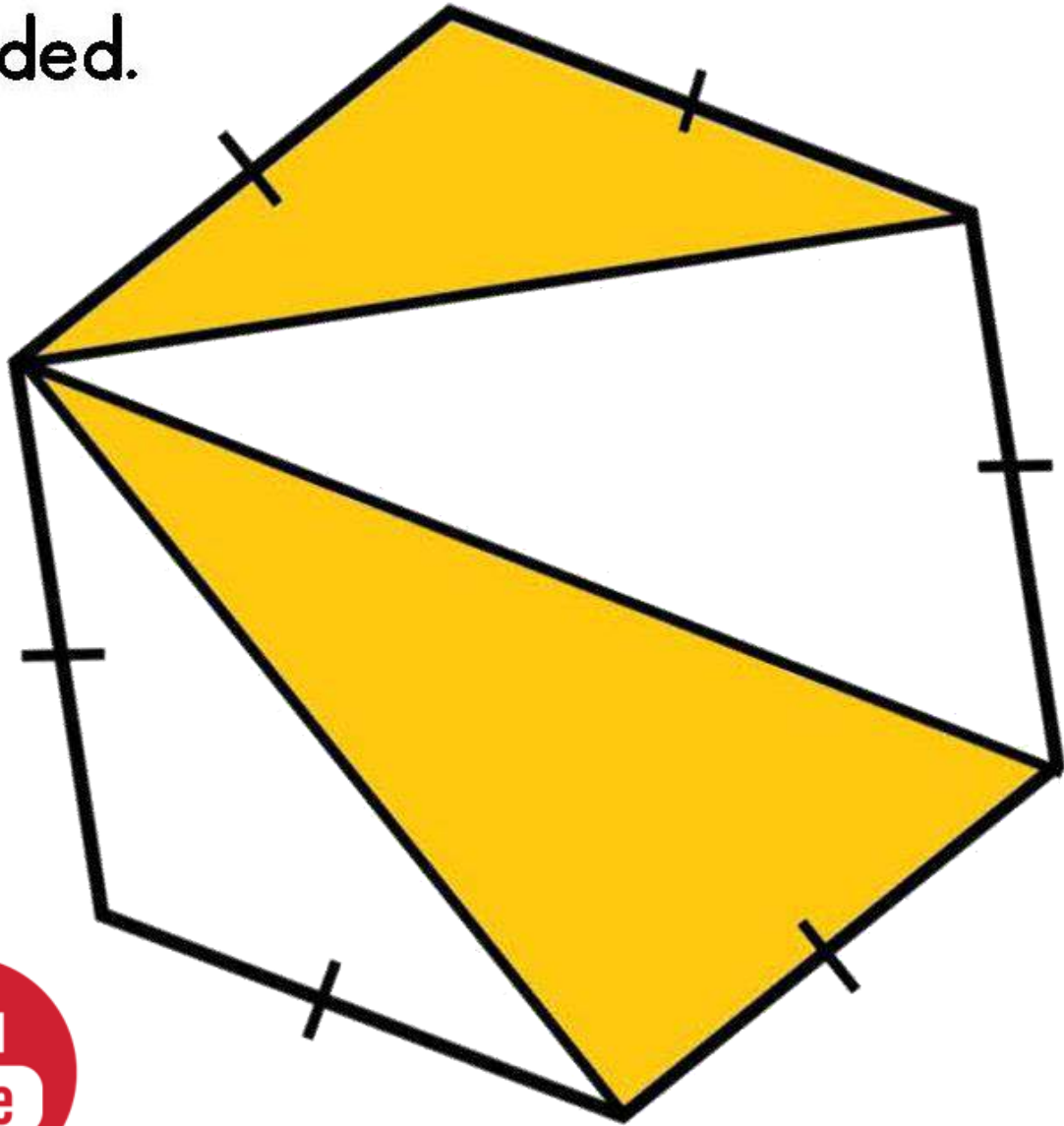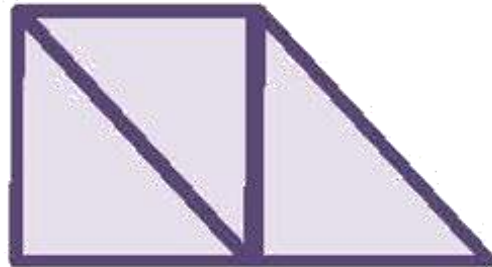
What fraction of the shape is shaded?

Explain your reasoning.

If this is $\frac{1}{3}$ of a shape.

What fraction of the shape is this?

Explain your reasoning.

A 5 litre jug of water is shared between 6 glasses.

A 6 litre jug of water is shared between 9 mugs.

Which contains more water a glass or a mug?

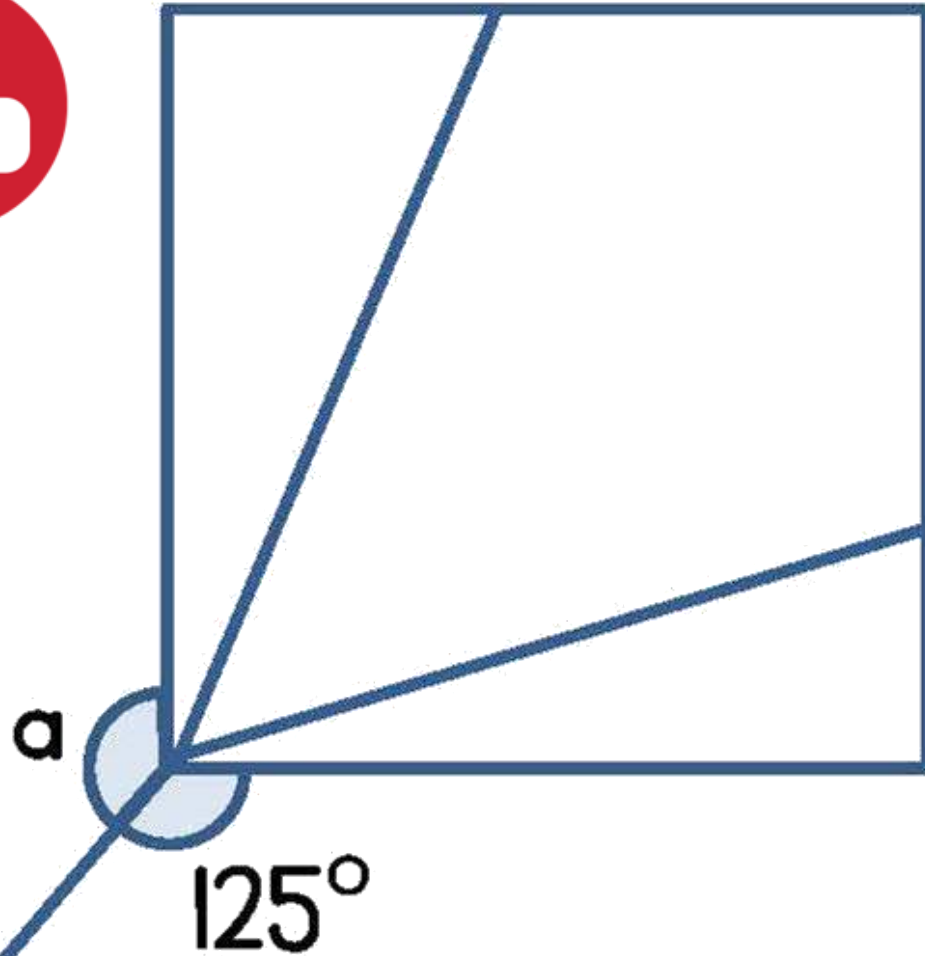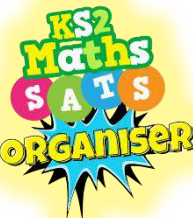The diagram below shows a square and some lines.

What is the size of the angle marked a?

Add the difference between 7,200 and 3,950 to the product of 278 and 9
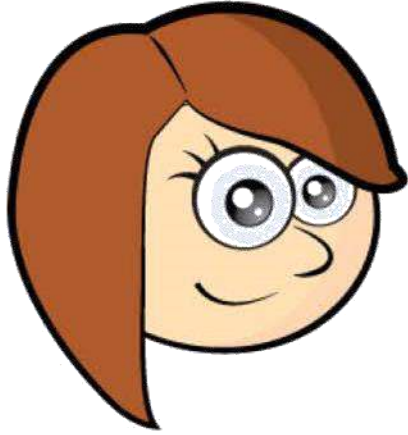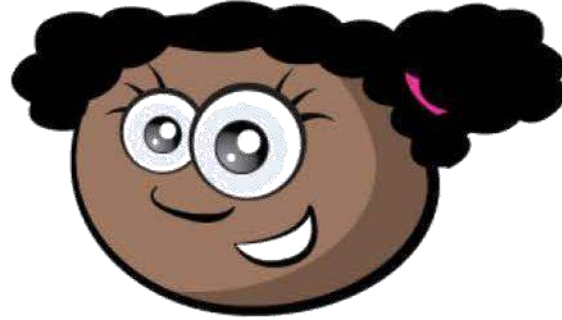
Tia has £4.78   Millie has £33.82

Millie gives Tia some money.

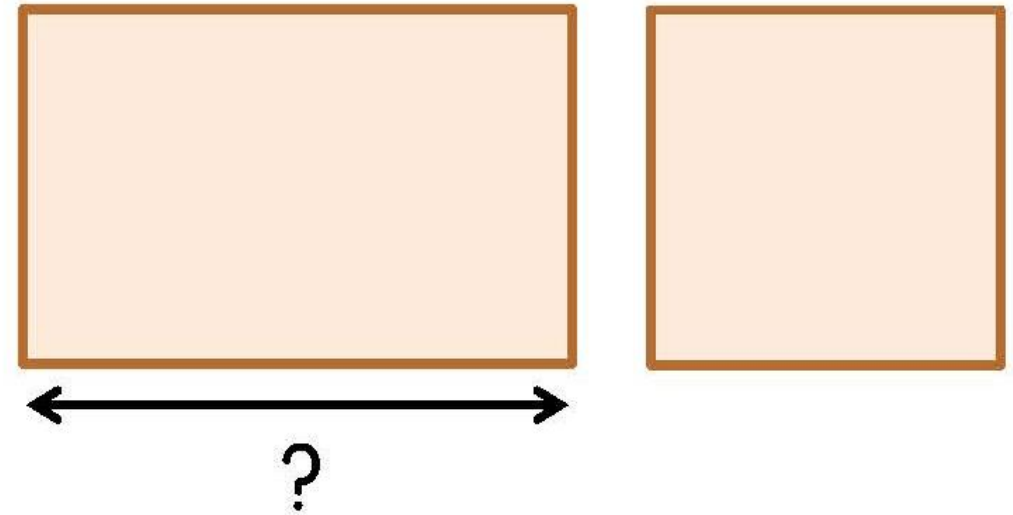Millie now has 3 times as much money as Tia.

How much money did Millie give Tia?

A rectangle has an area of 720 cm^2

The width of the rectangle is 18 cm.

18 cm

A square is cut off the end of the rectangle.

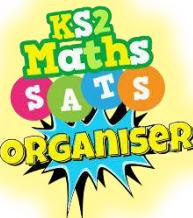What is the length of the rectangle remaining?

?

Here are two identical rectangles.

3 m 8 cm

What is the length of one of the rectangles?

What fraction of the shape is not shaded?
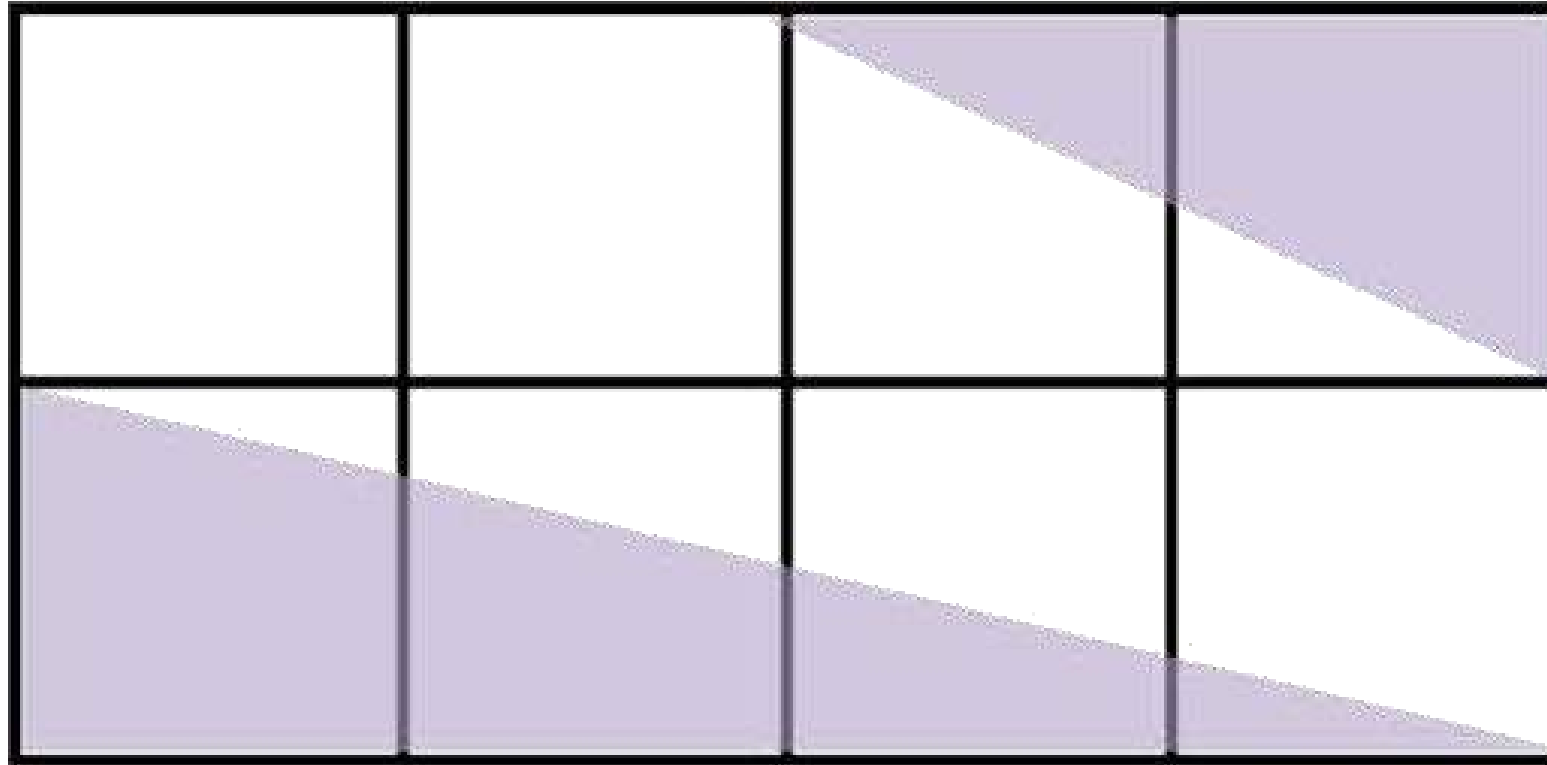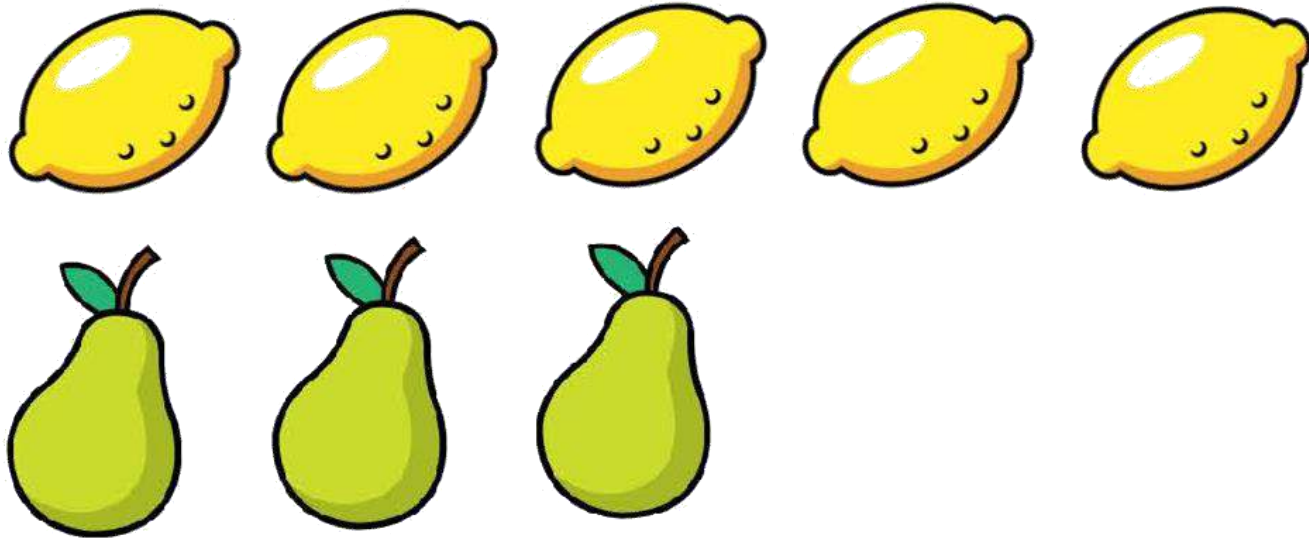
A bag contains some lemons and pears.

For every 5 lemons there are 3 pears.

There are 18 more lemons than pears.

How many lemons are there in total?

How many hundreds must be added to 12,900 to make 13,000?

How many tens must be added to 3,600 to make 4,000?

Gino has 72 stickers.

Peter has 5 times as many stickers as Gino.

Holly has half as many stickers as Peter.
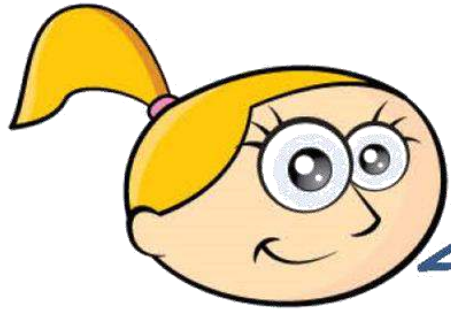
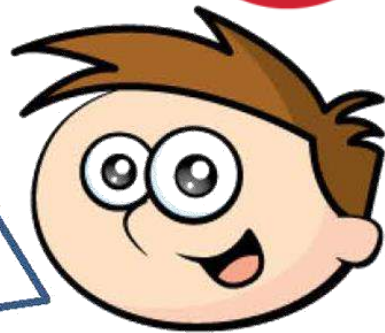How many stickers do they have in total?

Sammie is thinking of number.

The sum of 25% of my number and 75% of my number is 120

What number is Sammie thinking of?

Taran is thinking of a number.

The difference between $\frac{2}{5}$ of my number and $\frac{1}{10}$ of my number is 18

What number is Taran thinking of?

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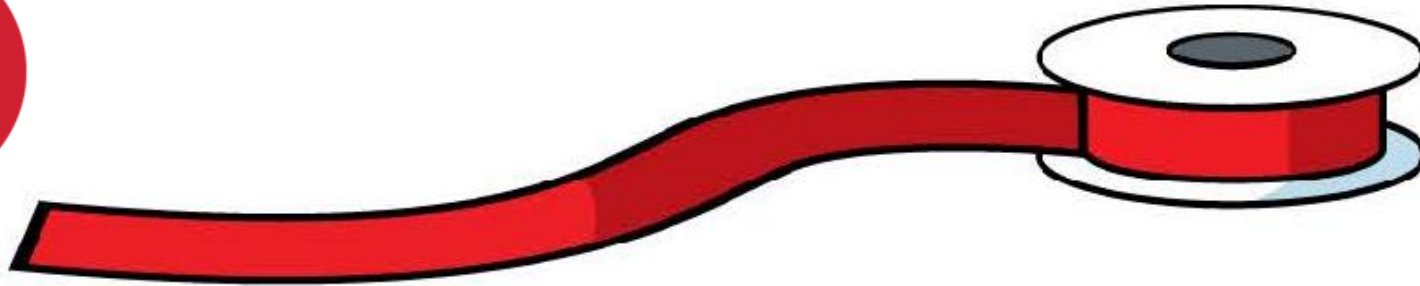
In a race $\frac{3}{5}$ of those taking part are adults.

$\frac{3}{8}$ of the children are boys.

What percentage of those that took part are boys?

Maxine has a 5 metre length of ribbon.

How many 12 cm long pieces can she cut from the length of ribbon?

Aisha is buying doughnuts.

Doughnut Palace

1 doughnut   55p

4 doughnuts   £1.75

What is the greatest number of doughnuts she can buy with £10?

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$\triangle \times \triangle = 25$

$\heartsuit + \heartsuit = 16$

Work out the missing values.

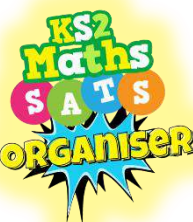$\triangle \times \triangle \times \triangle = \boxed{}$

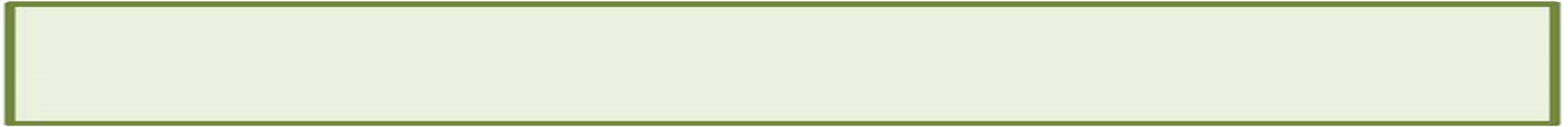$\heartsuit + \heartsuit + \heartsuit = \boxed{}$

Jill has a strip of paper.

She cuts off $\frac{1}{2}$ of the strip and throws it away.

She cuts of $\frac{1}{3}$ of the remaining strip and throws it away.

The length of the strip left is 18 cm.

What was the length if the strip at the start?

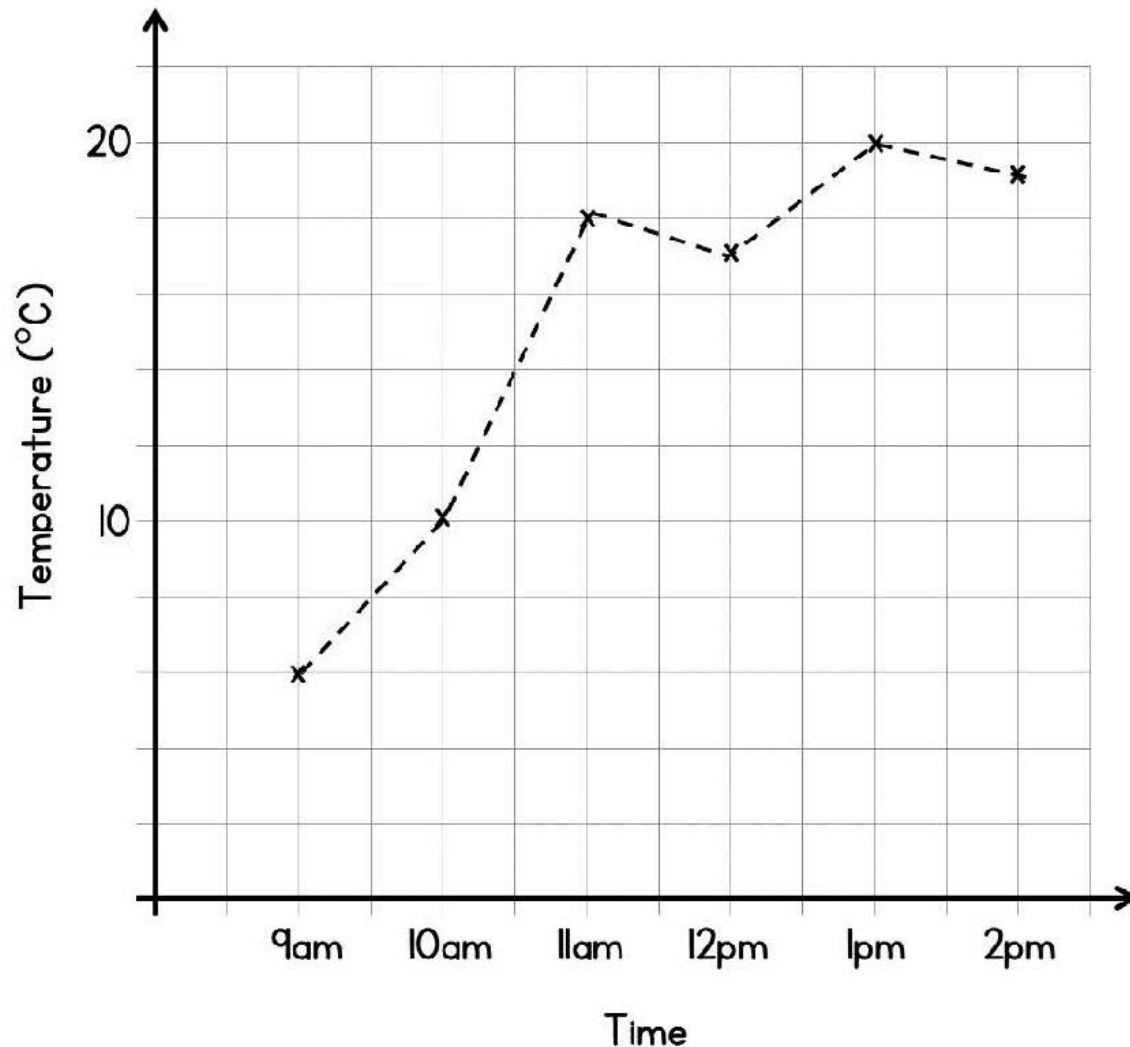The graph shows the temperature recorded in a town one day last summer.

How much did the temperature increase by between 9am and 2pm?
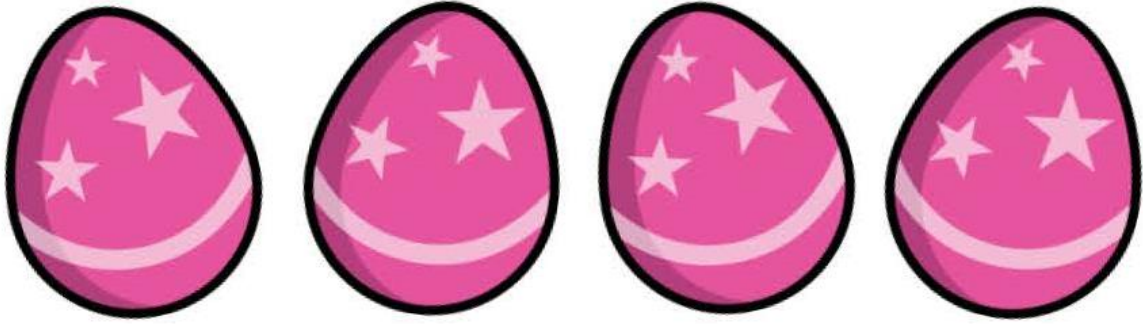
A factory produces Easter eggs.

In January the factory produces 263,000 eggs.

Every month it produces 78,000 more eggs than the previous month.

How many eggs did the factory produce in total in January, February and March?
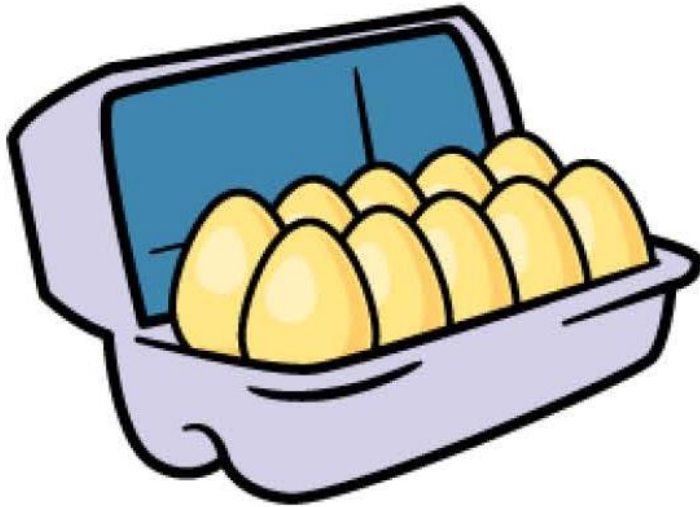
Eggs are sold in boxes of 10

A hotel needs 1,753 eggs for breakfast for the week.

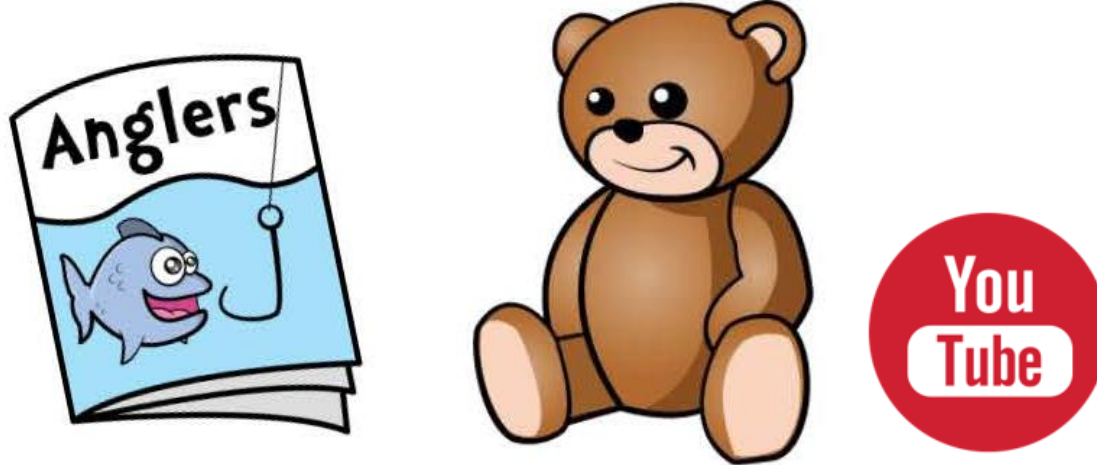What is the smallest number of boxes of eggs the hotel needs to buy for the week?

Questions by White Rose Maths   Videos powered by

Leon buys a magazine and a teddy.

The teddy costs 80p more than the magazine.

Leon pays with a £10 note and gets £3.08 change.
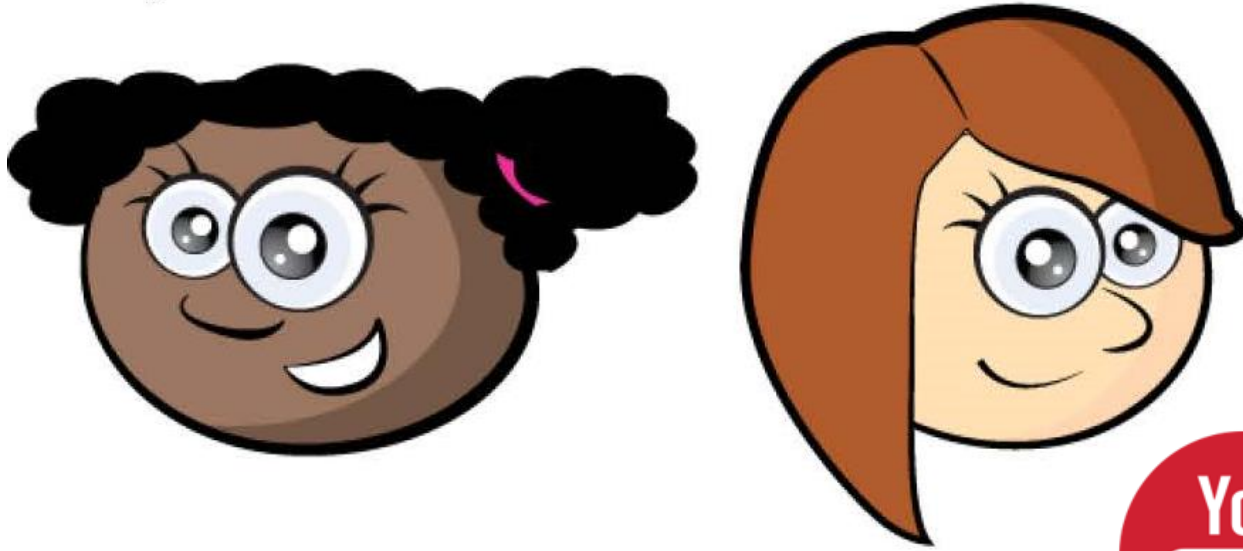
How much does the teddy cost?

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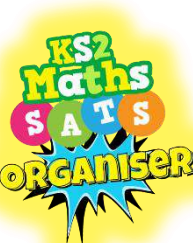
Tilly has £20

She gives £5.40 to her friend.

Tillly now has twice as much money as her friend.
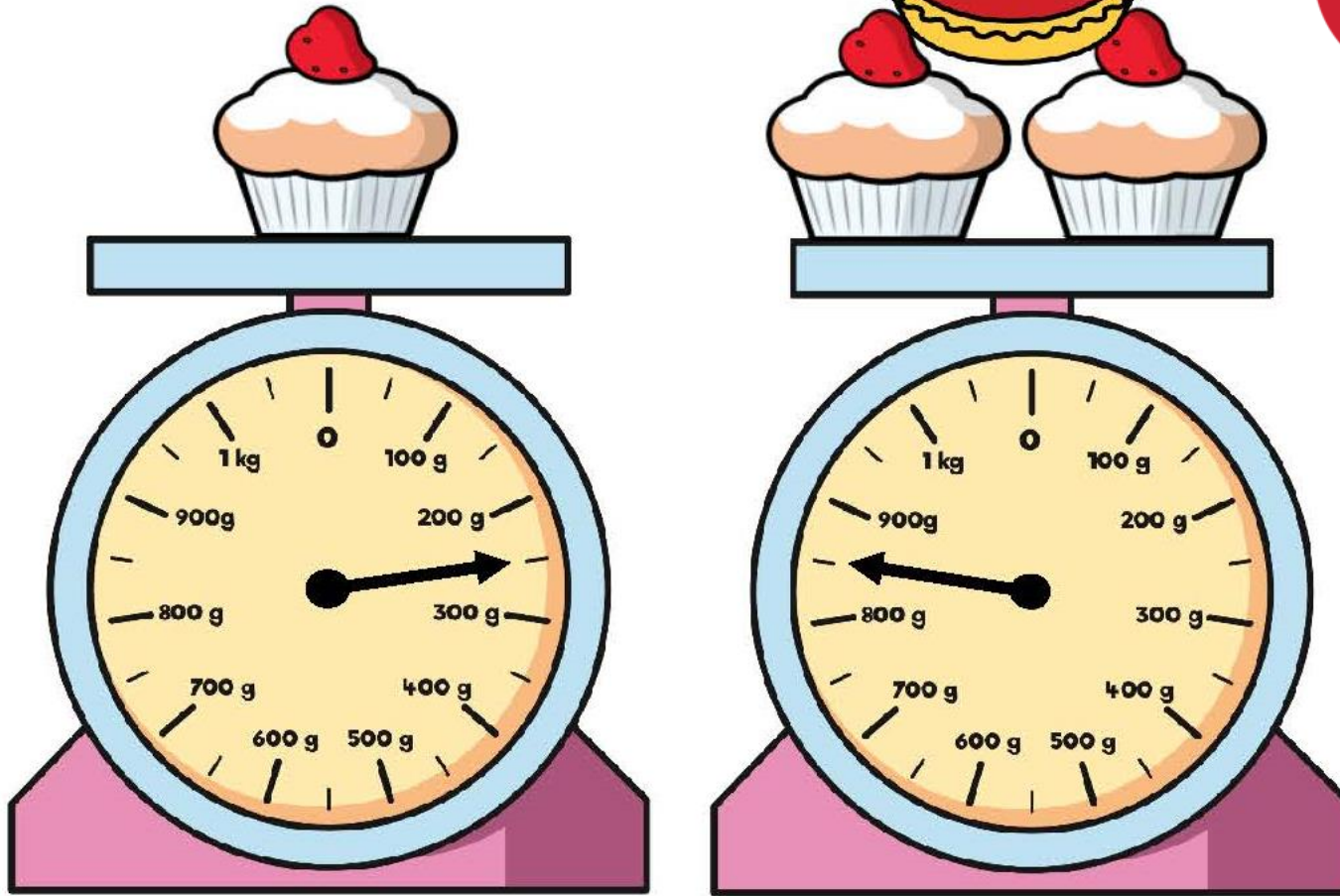
How much money did her friend have at the start?

Look at the scales.

How much more does a jam tart weigh than a muffin?

Complete the missing numbers.

All of the following are equal to

$$20 \times 58$$

$$10 \times 58 + \boxed{} \times 58$$

$$18 \times 58 + 58 \times \boxed{}$$

$$\boxed{} \times 58 - 10 \times 58$$

$$58 \times 19 + \boxed{}$$

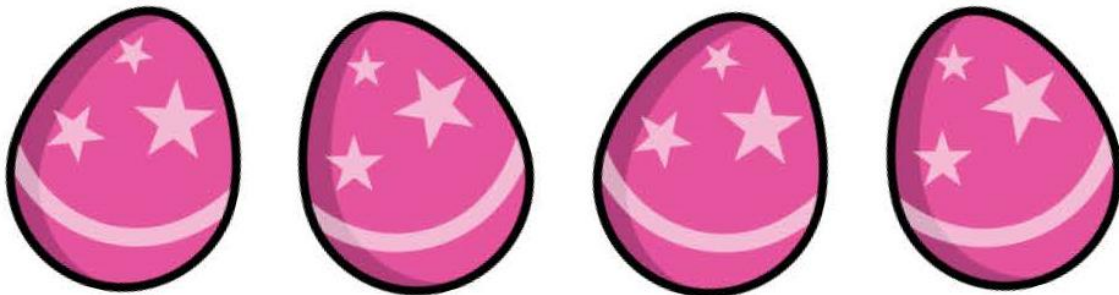$$57 \times 20 + \boxed{}$$

A box contains some chocolate eggs.

- Harry takes $3\frac{1}{3}$ kg of the eggs.

- Ron takes $\frac{2}{3}$ kg of eggs less than Harry

- There are 3.75 kg of eggs left.

What was the mass of the eggs at the start?