

**1** A polygon has one pair of equal angles that are less than 90 degrees and one pair of equal angles that are greater than 90 degrees.

It has two pairs of sides that are equal in length and parallel to each other.

What type of polygon is this?

- A Rhombus                      B Parallelogram                      C Trapezium                      D Kite

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**2** Amelia and Oliver were both baking cakes for a school charity event.

Amelia started baking at 14:20 and finished at 15:45.

Oliver began his baking at 14:12 and completed it at 15:28.

How many minutes faster did Oliver bake his cake compared to Amelia?

- A 9 minutes                      B 17 minutes                      C 25 minutes                      D 33 minutes

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**3** The distance between London and Manchester is 335.78 km.

The distance between London and Birmingham is one-fifth of the distance between London and Manchester.

A train has travelled between London and Birmingham 500 times.

What is the total distance the train has travelled between London and Birmingham?

- A 67.156 km                      B 671.56 km                      C 6 715.6 km                      D 33 578 km

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**4** James is planning to run a total of 10 kilometres over the course of three days.

On the first day, he runs for 2.5 kilometres, and on the second day, he manages to run 4.2 kilometres.

How far does James need to run on the third day to reach his goal?

- A 3.3 kilometres                      B 3.8 kilometres                      C 4.3 kilometres                      D 2.8 kilometres

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**5** Amelia has a 4.2 litre bottle of orange juice.

She pours 300 ml of juice into five glasses.

How much orange juice is left in the bottle?

- A 2.7 litres                      B 1.5 litres                      C 2.9 litres                      D 3.6 litres

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**6**

A village has a population of 250 people at the start of the year.

The population grows by 20% each year.

What would the population of the village be after 2 years?

**A** 300**B** 360**C** 400**D** 500

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**7**

Amelia's birthday party is scheduled to start at 14:00 on Saturday.

She needs to pick up the cake from the bakery at 10:30 on the same day.

How many minutes are there between the time she picks up the cake and the start of her party?

**A** 210 minutes**B** 200 minutes**C** 220 minutes**D** 190 minutes

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**8**

Samantha is making a circular birthday cake for her friend's party. She wants to decorate the edge of the cake with evenly spaced chocolate pieces.

If each chocolate piece covers a  $24^\circ$  angle of the circular cake, how many chocolate pieces does Samantha need to cover the entire edge of the cake?

**A** 12**B** 15**C** 18**D** 20

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**9**

Liam is saving up to buy a new bicycle that costs £420.

He currently has £180 saved up in his piggy bank.

Liam earns £30 per week from his paper round and adds this to his savings.

How many weeks will it take for Liam to save up enough money to buy the bicycle?

**A** 6 weeks**B** 7 weeks**C** 8 weeks**D** 9 weeks

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**10**

A rectangular prism has a total surface area of  $94 \text{ cm}^2$ .

If the length and width of the prism are equal, and the height is 2 cm, what is the length of one side of the prism's base?

**A** 3 cm**B** 2 cm**C** 4 cm**D** 5 cm

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