

1 Which of the following 3D shapes has exactly 5 vertices?

- A Square-based pyramid B Triangular prism C Cube D Octahedron

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2 Which of the following pairs of weights has a difference greater than 1.75 kg?

- A 5.42 kg and 7.18 kg B 2.89 kg and 4.64 kg C 1.56 kg and 3.31 kg D 6.73 kg and 8.48 kg

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3 Mrs Johnson's Year 6 class held a sponsored silence to raise money for charity.

The 25 pupils in the class managed to stay silent for a total of 500 minutes.

What was the average number of minutes each pupil stayed silent for?

- A 5 B 10 C 20 D 25

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4 Samantha works at a bakery from Monday to Sunday.

On weekdays, she earns £10 per day.

On weekends, she earns triple the weekday amount per day.

Calculate the average amount Samantha earns per day across the entire week.

- A £15 B £15.71 C £16 D £15.31

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5 A train carriage has a maximum capacity of c passengers. The 09:15 train has 3 carriages and the 11:30 train has 2 more carriages than the 09:15 train.

Which expression represents the total passenger capacity of the 11:30 train?

- A $3c + 2$ B $5c$ C $c + 5$ D $2(3c)$

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6

A school has a mean number of 32 pupils per class.

If the total number of pupils in the school is 224, how many classes are there?

A 7**B** 8**C** 6**D** 5

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7

Amir is building a rectangular fish tank out of glass.

The tank will have a length of 60 cm, a width of 30 cm, and a height of 40 cm.

What is the total surface area of glass that Amir needs to construct the fish tank?

A 9 000 cm²**B** 5 400 cm²**C** 7 200 cm²**D** 3 600 cm²

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8

Which of the following measurements represents an obtuse angle?

A 45°**B** 90°**C** 135°**D** 60°

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9

Amelia is collecting stickers for her album.

On Monday, she gets 523 stickers from her friends.

On Tuesday, she buys 341 stickers from the shop.

On Wednesday, her teacher gives her 289 stickers for good behaviour.

How many stickers did Amelia collect in total over the three days?

A 1 153**B** 1 163**C** 1 143**D** 1 243

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10

Sarah is helping her dad build a fence in their garden.

She measures the lengths of wood they will need for each side of the fence.

The lengths she measures are: 3 metres, 5 metres, 3 metres, 4 metres and 5 metres.

What shape will the fence be when it is finished?

A Irregular pentagon**B** Regular pentagon**C** Irregular hexagon**D** Regular hexagon

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