

- 1** Amir has five pieces of wood.
- The lengths of the pieces are 12 cm, 15 cm, 12 cm, 15 cm, and 12 cm.
- He takes some of the pieces and arranges them so that they make a closed shape with straight sides.
- Which of the following shapes is it impossible for him to make?
- A Isosceles triangle      B Rectangle      C Regular pentagon      D Rhombus

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- 2** A bakery is making cupcakes for an event.
- They have 5 different flavours and are making the same number of each flavour.
- In total, they make 3 200 cupcakes.
- How many cupcakes of each flavour did they make?
- A 620      B 640      C 610      D 650

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- 3** James visited five different bakeries and wrote down the price of a loaf of bread in each one.
- The prices are listed below:
- £1.25, £1.50, £1.35, £1.60, £1.30
- What is the mean price of a loaf of bread?
- A £1.40      B £1.50      C £1.20      D £1.35

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- 4** Amelia is making bracelets for her friends.
- Each bracelet requires 12 beads.
- Amelia has a pack of 300 beads.
- How many complete bracelets can Amelia make with the beads she has?
- A 25      B 30      C 20      D 24

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- 5** A recipe for making chocolate chip cookies states that the number of chocolate chips ( $c$ ) needed is given by the following formula:

$$c = 4(2e + 3)$$

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**6**

A train travels a distance of 4 500 metres.

What is this distance in kilometres?

**A** 4.5 km**B** 45 km**C** 0.45 km**D** 450 km

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**7**

Sarah is making a sculpture using 8 spheres, each with a radius of 5 cm.

Calculate the total volume of the sculpture.

**A** 4 188.79 cm<sup>3</sup>**B** 2 094.40 cm<sup>3</sup>**C** 8 377.58 cm<sup>3</sup>**D** 1 000 cm<sup>3</sup>

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**8**

A school is organising a trip to the zoo for 1 734 students.

The students will be divided into equal-sized groups, with 6 students in each group.

How many students will be left without a group?

**A** 3**B** 0**C** 4**D** 5

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**9**

Amir has a piece of wood that is 850 cm long.

He cuts off a piece that is 243 cm long to make a shelf.

How much wood does Amir have left?

**A** 607 cm**B** 693 cm**C** 587 cm**D** 617 cm

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**10**

A bakery sells 5,012 loaves of bread in a week.

If each loaf weighs 0.402 kg, what is the total weight of bread sold in a week, in kilograms?

**A** 20.14 824**B** 201.4 824**C** 2 014.824**D** 20 148.24

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