

1 Two cyclists, Alice and Bob, set off from the same point and cycle in the same direction.

After 45 minutes, Alice has cycled 12.6 km, while Bob has cycled 10.8 km.

What is the distance between Alice and Bob now?

- A 1.8 km B 2.4 km C 1.2 km D 2.1 km

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2 Sarah is learning to do spins in her ballet class.

She starts facing north and does three 180° turns anticlockwise, followed by one 90° turn clockwise.

In which direction is Sarah now facing?

- A north B east C south D west

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3 Which of these 3D shapes has the fewest number of faces?

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

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4 A rectangular prism-shaped fish tank has a surface area of 1200 cm^2 .

If the distance between two opposite corners is 50 cm, what is the correct length and width pair?

- A 30 cm, 40 cm B 35 cm, 45 cm C 50 cm, 50 cm D 25 cm, 30 cm

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5 Amelia is planning a long-distance bike ride for charity.

Which unit of measurement would be most appropriate for measuring the total distance she will cycle?

- A millimetres B centimetres C metres D kilometres

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6

If $3\,600 \div 18 = 200$, then what is the result of $7\,200 \div 18$?

A 400

B 200

C 360

D 800

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7

Sarah is buying some sweets for her friends.

She has a budget of £12.50 and wants to buy 7 bags of jelly beans that cost £1.20 each.

How much change will Sarah have after buying the jelly beans?

A £4.10

B £8.40

C £5.30

D £20.90

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8

A bakery has produced 3 600 g of cookie dough.

They use 90 g of dough for each cookie.

What is the maximum number of cookies they can make with this batch of dough?

A 40

B 36

C 42

D 38

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9

Sarah is baking cookies for a school fundraiser. On Monday, she bakes 3.25 dozen cookies. On Tuesday, she bakes 5.5 dozen cookies, and on Wednesday, she bakes 4.75 dozen cookies.

How many dozen cookies did Sarah bake in total over the three days?

A 13.5 dozen

B 12.5 dozen

C 14.25 dozen

D 13.75 dozen

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10

A ship is located at coordinates (7, -12) on a navigation map. The ship moves so that its new coordinates are (11, -8).

Which of the following describes the ship's movement?

A 4 units east and 4 units north

B 5 units west and 20 units north

C 4 units east and 4 units south

D 11 units west and 8 units south

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