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Liam is planning to send some postcards to his friends while on holiday.

Each postcard weighs 10 g and the envelope he will use to send them weighs 20 g.

The maximum weight he can send, including the envelope, is 0.15 kg.

What is the maximum number of postcards Liam can send in one envelope?

A 13

B 12

C 14

D 15

1

2

Amelia is making a fruit salad for a party. She buys a bag of mixed fruit that weighs 2.75 kg.

After removing the apples, the remaining fruit weighs 1.68 kg.

How much do the apples weigh?

A 1.07 kg

B 0.93 kg

C 1.32 kg

D Need more information

1

3

Sarah measures the angle between the hour hand and the minute hand on a clock face.

The angle she measures is 168° .

What type of angle is this?

A acute

B reflex

C obtuse

D right

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4

Samantha is making a circular birthday cake for her friend.

She wants to decorate the edge of the cake with evenly spaced chocolate buttons.

If each chocolate button takes up a 24° angle of the circular cake, how many chocolate buttons will Samantha need to cover the entire edge of the cake?

A 15

B 12

C 18

D 20

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5

Sarah is buying some supplies for her art project.

She purchases a set of paints for £8.75 and a canvas for £12.60.

If she hands the cashier a £50 note, how much change will she receive?

A £28.65

B £21.35

C £30.25

D £27.05

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6 Sarah is planning a birthday party for her daughter, Emma. She wants to buy party hats and balloons for all the guests.

The total number of items (i) can be calculated using the formula $i = 2h + 5b$, where h is the number of hats and b is the number of balloons.

If Sarah buys 18 hats and 12 balloons, how many items will she have in total?

- A 96 B 78 C 114 D 84

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7 A school has 1,248 students.

If each student is allocated £12.36 from the school budget, what is the total amount allocated in pounds?

- A 15 424.28 B 1 542.428 C 154 242.8 D 1 524.428

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8 On a map, a hiker is located at coordinates (3, 4).

The hiker then moves 3 units south and 2 units west.

What are the new coordinates of the hiker's position?

- A (1, 1) B (5, 2) C (6, 7) D (0, 3)

1

9 What is the most probable weight of an adult male African elephant?

- A 6,000 kg B 6,000 g C 600 kg D 60,000 kg

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10 Amelia is recording the number of hours she spends studying each day for a week.

On Monday to Saturday, she studies for 2, 3, 4, 1, 5, and 3 hours respectively.

If the mean number of hours Amelia studies per day for the whole week is 3 hours, how many hours did she study on Sunday?

- A 2 hours B 3 hours C 4 hours D 5 hours

1

