1

Amelia is baking cupcakes for a school fundraiser.

On Monday, she bakes 85 cupcakes, and on Tuesday, she bakes 68 cupcakes.

The school has asked her to provide a total of 300 cupcakes for the event.

How many more cupcakes does Amelia need to bake to reach the required amount?

A 147   B 232   C 137   D 153

1

2

A bakery produces 120 cupcakes per batch.

Sarah orders three batches and distributes the cupcakes equally among 18 children at a birthday party.

How many cupcakes will each child receive?

A 20   B 40   C 60   D 18

1

3

In a science experiment, a solution was diluted by a factor of 10,000.

If the final concentration of the solution was 0.384 mol/L, what was the original concentration before dilution?

A 0.384 mol/L   B 3.84 mol/L   C 38.4 mol/L   D 384 mol/L

1

4

In a calculation, 5.281 is multiplied by 100.

The result of this multiplication is then divided by 10.

What is the final result of these operations?

A 52.81   B 0.5 281   C 528.1   D 5 281

1

5

A cube has six square faces. How many edges does a cube have in total?

A 8   B 10   C 12   D 14

1

6

In a school, there are *m* boys and *g* girls.

The number of boys is 12 less than twice the number of girls.

If there are 30 girls in the school, how many boys are there?

A 48   B 18   C 42   D 60

1

7

Liam and Emma visited a stationery shop after school.

Liam purchased a notebook for £1.25 and three pens for 60p each.

Emma bought two pencils for 40p each and a ruler for 95p.

What was the total amount they spent at the shop?

A £4.80   B £3.80   C £4.00   D £3.60

1

8

A baker starts with a recipe that makes 60 cookies.

He decides to triple the recipe, but then realises he only has enough chocolate chips for half of the new amount.

What single calculation could he do to the original recipe amount to determine how many cookies he can make?

A × 1.5   B ÷ 2   C × 3   D ÷ 6

1

9

A school is organising a trip to a theme park for 40 students. They have a choice of four different coach companies to use for transport.

Which of the following coach hire options will be the most expensive for the school?

A Company A charges £15 per student   B Company B charges a flat rate of £800 for up to 50 students   C Company C charges £12 per student plus a £50 booking fee   D Company D charges £10 per student plus a £100 booking fee

1

10

A packet of crisps costs £0.75 at the local shop.

If Emily wants to buy a packet of crisps for each of her 5 friends, how much will it cost in total?

A £3.75   B £4.50   C £3.00   D £4.25

1