1

A recipe for making 12 cupcakes requires 180g of flour. Sarah wants to make 30 cupcakes for a bake sale.

How many grams of flour will Sarah need?

A 450g   B 360g   C 540g   D 600g

1

2

Sarah is baking 12 cupcakes for her school's bake sale.

She has a total of 360 g of sugar to use in the cupcake batter.

What will be the average amount of sugar in each cupcake?

A 30 g   B 24 g   C 36 g   D 40 g

1

3

A school has a total of 2 160 000 sheets of paper, which need to be divided equally among 400 students.

How many sheets of paper will each student receive?

A 5 400   B 54 000   C 540   D 54

1

4

A bakery produces 84,600 loaves of bread every year.

If they package the loaves into boxes of 100, how many boxes could they fill?

A 8.46   B 0.846   C 84.6   D 846

1

5

Amelia is saving up to buy a new bicycle that costs £180.

She already has £60 saved up, and plans to save an additional £40 per month.

How many months will it take Amelia to save enough money to buy the bicycle?

A 4 months   B 3 months   C 2 months   D 5 months

1

6 Sarah is making gift bags for a charity event.

Each bag contains *a* pencils and *b* erasers.

The total cost of the items in each bag can be calculated using the formula: £$C = 2a + 1.5b$.

If Sarah puts 8 pencils in each bag and the total cost of the items in each bag is £31, how many erasers does she put in each bag?

A 5 B 10 C 15 D 20

1

7 Sarah finishes her shift at the supermarket at 18:20.

She spends 12 minutes walking to the bus stop and waits there for another 17 minutes before the bus arrives.

The bus journey takes 35 minutes to reach her stop, and she walks for a further 8 minutes to reach her home.

At what time does Sarah arrive home?

A 19:32 B 19:12 C 19:47 D 20:02

1

8 Amelia has a square piece of paper. She cuts out a regular pentagon and an equilateral triangle from it.

The shapes have equal side lengths. She places the triangle above the pentagon so that one side of each shape is touching.

How many lines of symmetry does the resulting shape have?

A 1 B 2 C 3 D 5

1

9 Liam is building a rectangular prism-shaped fish tank.

The internal dimensions of the fish tank are 40 cm in length, 25 cm in width, and 30 cm in height.

What is the volume of water, in litres, that the fish tank can hold?

A 29.25 litres B 30 litres C 27.5 litres D 28 litres

1

10 A garden has a perimeter of 50 metres.

The lengths of the sides are 10 metres, 15 metres, 10 metres and 15 metres.

What shape is the garden?

A Rectangle B Square C Rhombus D Circle

1