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Sarah is baking a batch of 12 blueberry scones for a charity bake sale.

She uses a total of 360 ml of milk in the recipe.

What is the average amount of milk used per scone?

A 30 ml

B 24 ml

C 36 ml

D 40 ml

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2

In 1 995, the small town of Millfield had a total of 486 houses.

By 2 020, the number of houses in Millfield had increased to 6 times the number in 1 995.

How many houses were there in Millfield in 2 020?

A 2 916

B 29 160

C 291 600

D 4 860

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3

A spherical ball of modelling clay has a volume of  $1,000 \text{ cm}^3$ .

If the ball is reshaped into a cube, what would be the length of one of its sides?

A 8 cm

B 9 cm

C 10 cm

D 11 cm

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4

A school is organising a trip to the zoo for 6 300 students.

The students will be split into equal-sized groups, with each group travelling in a separate coach.

If each coach can carry 90 students, how many coaches will be needed?

$$6\,300 \div 90 = \underline{\quad} \times 10$$

What is the missing number in the calculation above?

A 7

B 0.7

C 70

D 700

1

5

A rectangular fish tank has a length of 60 cm, a width of 30 cm, and a height of 40 cm.

How many 5 cm cubic stones can be placed inside the tank?

A 576

B 1 728

C 288

D 864

1

**6**

Amelia is recording the number of points she scores in each of her netball matches this season.

Her scores are: 12, 9, 15, 11, 17, 13, 19, 10

Calculate the mean number of points Amelia scores per match, rounded to the nearest whole number.

**A** 11**B** 12**C** 13**D** 14

1

**7**

A local taxi company charges a fixed booking fee, plus an additional amount per mile travelled.

The total fare can be calculated using the formula  $F = 300 + 150m$ , where  $F$  is the total fare in pence and  $m$  is the number of miles travelled.

If a passenger's total fare comes to £24, how many miles did they travel?

**A** 14**B** 10**C** 12**D** 16

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**8**

Amir records the number of pages he reads each day for four days.

On Thursday he read 23 pages, on Friday he read 18 pages, on Saturday he read 26 pages, and on Sunday he read 31 pages.

What was the mean number of pages Amir read per day over the four days?

**A** 24.5 pages**B** 25 pages**C** 26 pages**D** 28 pages

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**9**

In a school, there are 18 classrooms, each containing 12 desks.

Which of the following equations is equivalent to the total number of desks in the school?

**A**  $18 \times 12 = 27 \times 8$ **B**  $18 \times 12 = 36 \times 4$ **C**  $18 \times 12 = 54 \times 6$ **D**  $18 \times 12 = 72 \times 2$ 

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**10**

A group of 9 colleagues decide to split the cost of a £243 gift for their boss equally.

How much will each colleague need to contribute?

**A** £27**B** £26**C** £28**D** £29

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