

- 1** A plumber charges a call-out fee of £50, plus £30 per hour for labour during weekdays.
- On weekends, the plumber increases the call-out fee by £20 and raises the hourly rate by £10.
- Which of the following expressions gives the cost in pounds of a job that takes  $h$  hours on a weekend?
- A  $70 + 40h$       B  $70h + 40$       C  $h(70 + 40)$       D  $50 + 40h$

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- 2** Sarah is training for a 10km swimming event to raise money for charity.
- She begins her training on the 15<sup>th</sup> of April and completes the event on the 9<sup>th</sup> of June.
- How many days does Sarah spend training for the event?

A 54 days      B 56 days      C 55 days      D 57 days

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- 3** The cost of hiring a bouncy castle for a children's party can be calculated using the formula  $H = 25k + 10t$ , where  $H$  is the total hire cost in pounds,  $k$  is the number of children attending, and  $t$  is the number of hours the bouncy castle is hired for.

If 18 children are attending the party and the bouncy castle is hired for 3 hours, what is the total hire cost?

A £480      B £450      C £510      D £540

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- 4** A local bakery sold 500 cupcakes for a total of £1 250.
- If each cupcake was sold at the same price, how much did each cupcake cost?

A £2.50      B £25      C £250      D £6 250

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- 5** A toy company is creating a scale model of Big Ben, the famous clock tower in London.
- The actual height of Big Ben is 9 600 cm, and the scale model will be 50 times smaller.
- What will be the height of the scale model of Big Ben?

A 192 cm      B 19.2 cm      C 1 920 cm      D 48 000 cm

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**6**

John is planning to buy some wooden planks for a DIY project.

Each plank costs £3.60.

What would be the total cost for 8 planks?

**A** £28.80**B** £32.40**C** £25.20**D** £30.60

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**7**

A bakery uses 15 bags of flour to make 90 loaves of bread.

If they increase their production and use 45 bags of flour, how many loaves of bread can they make?

**A** 270 loaves**B** 180 loaves**C** 135 loaves**D** 225 loaves

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**8**

A local charity organised a sponsored walk to raise money for a new community centre.

In total, 120 people took part in the walk and together they raised a total of £9,600.

What was the average amount raised per person?

**A** £80**B** £800**C** £8**D** £96

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**9**

Amir is making a fruit salad for his family.

He uses 320g of chopped apples, 275g of sliced bananas, and 180g of halved grapes.

What is the total weight of the fruit salad Amir made?

**A** 775g**B** 675g**C** 875g**D** 575g

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**10**

A school has 600 students. The library has 100 times more books than the school has students.

The number of books in the library is 10 times greater than the number of DVDs in a nearby warehouse.

The number of CDs in the warehouse is 100 times greater than the number of DVDs.

How many CDs are in the warehouse?

**A** 600 000**B** 600**C** 60 000**D** 6 000

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