

1 Sarah is baking a cake for her friend's birthday party. She starts mixing the ingredients at 10:15 am and it takes her 25 minutes to prepare the batter.

The cake needs to bake in the oven for 40 minutes. Sarah wants the cake to be ready at the same time as the icing, which takes 15 minutes to make.

At what time should Sarah start making the icing?

- A 11:05 am B 10:55 am C 11:20 am D 10:40 am

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2 A single red blood cell has a diameter of 0.75 mm.

The diameter of a human hair is 100 times greater than the diameter of a red blood cell.

What is the diameter of a human hair in millimetres?

- A 0.75 mm B 0.075 mm C 7.5 mm D 75 mm

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3 A rectangular fish tank has a volume of $3,600 \text{ cm}^3$.

The length of the tank is 30 cm and the width is 20 cm.

What is the minimum depth of the fish tank?

- A 6 cm B 5 cm C 7 cm D 8 cm

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4 Alice, Bob and Charlie are comparing how many pages they read in a week.

Alice read 24 pages.

Bob read 3 times as many pages as Alice.

Charlie read 5 times as many pages as Alice.

How many pages did they read altogether?

- A 288 B 192 C 144 D 216

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5 Liam has a piece of wood that is 150 cm long.

He saws off 12 cm of wood, then cuts the remaining piece of wood into 6 equal lengths.

How long is each of these 6 equal lengths?

- A 23 cm B 25 cm C 20 cm D 22 cm

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6

In a school orchestra, there are 35 students in total. Each student plays only one instrument.

12 students play the violin, 8 play the flute, and 6 play the cello.

Assuming there are only four instruments, how many students play the trumpet?

A 9**B** 11**C** 15**D** 7

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7

Amir has a 2.4 litre container of orange juice.

He pours 80 ml of juice into a glass each morning with his breakfast.

How many days will one container of orange juice last for?

A 30 days**B** 24 days**C** 18 days**D** 36 days

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8

Liam is building a model railway track.

He has 35 pieces of track, each measuring 18 cm in length.

What is the total length of the model railway track?

A 630 cm**B** 450 cm**C** 530 cm**D** 720 cm

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9

A bakery sells a box of 8 cupcakes for £12.

Amelia orders 96 cupcakes for her birthday party.

How much does Amelia spend on the cupcakes?

A £144**B** £1152**C** £96**D** £1200

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10

A school has 5,400 exercise books to distribute equally among its students.

$$5,400 = 100 \times \underline{\quad}$$

What is the missing number in the calculation above?

A 54**B** 0.54**C** 540**D** 5.4

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