



THIRD SPACE  
LEARNING

# GCSE Exam Questions

Fractions of Amounts | Number

## GCSE Exam Questions: Fractions of Amounts

- 1) The average age of people in an office is 42 years old.

Ben's age is  $\frac{5}{7}$  of the average.

How old is Ben?

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(2 marks)

- 2) There are 268 coins in a bottle.  $\frac{1}{4}$  of the coins are £1 coins.

86 of the coins are 50p coins. The rest of the coins are £2 coins.

Work out the value of the 268 coins.

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(4 marks)

- 3) A train has 1 first-class carriage and 5 standard carriages.

The first-class carriage has 50 seats.

$\frac{2}{5}$  of the seats are being used.

Each standard class carriage has 80 seats.

$\frac{5}{8}$  of the seats are being used.

Are more than half the seats on the train being used?

You must show your working.

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(5 marks)

## GCSE Exam Questions: Fractions of Amounts Answers

	Question	Answer	Marks
1)	The average age of people in an office is 42 years old. Ben's age is $\frac{5}{7}$ of the average. How old is Ben?	$\frac{5}{7} \times 42$  30	(1)  (1)
2)	There are 268 coins in a bottle. $\frac{1}{4}$ of the coins are £1 coins. 86 of the coins are 50p coins. The rest of the coins are £2 coins. Work out the value of the 268 coins.	£67 <b>or</b> £43 <b>seen</b> 2 x 115 <b>or</b> £230 £67 + £43 + £230 £340	(1) (1) (1) (1)
3)	A train has 1 first-class carriage and 5 standard carriages.  The first-class carriage has 50 seats. $\frac{2}{5}$ of the seats are being used.  Each standard class carriage has 80 seats. $\frac{5}{8}$ of the seats are being used.  Are more than half the seats on the train being used? You must show your working.	$50 + (5 \times 80) = 450$  $450 \div 2 = 225$  $\frac{2}{5} \times 50 = 20$  $\frac{5}{8} \times 80 = 50$  $20 + (5 \times 50) = 270$  Yes <b>and</b> 270 <b>and</b> 225	(1)  (1)  (1)  (1)  (1)

# Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning [GCSE maths revision](#) pages.

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