



THIRD SPACE
LEARNING

GCSE Exam Questions

Reverse Percentages | Number

GCSE Exam Questions: Reverse Percentages

You may use a calculator for questions 1 and 2.

- 1) (a)** In August, 16% of all ice creams sold in Ifan's Ice Cream Parlour were chocolate flavoured.
If 1368 chocolate ice creams were sold, how many ice creams were sold altogether?

(2)

- (b)** In August, Ifan's Ice Cream Parlour sold 52% more ice creams than it did in July.
How many were sold in July?

(3)
(5 marks)

- 2) (a)** Jacob invested some money into a bank account with an interest rate of 2.4% per annum.
After 1 year Jacob had £358.40 in his account. How much did Jacob invest?

(3)

- (b)** How much would Jacob have in his account at the end of the second year?

(3)
(6 marks)

GCSE Exam Questions: Reverse Percentages

- 3) A chocolate breakfast cereal is made with a new recipe, containing 40% less sugar. If the breakfast cereal now contains 9g of sugar per serving, how much did it contain, per serving, before the recipe changed?

(3)

(3 marks)

- 4) (a) A laptop is reduced by 25% to £390. Find the original price of the laptop.

(3)

- (b) The sale price is then reduced by 25%. Ashley says that the laptop will now be half price. Is Ashley correct? Give a reason for your answer.

(2)

(5 marks)

GCSE Exam Questions: Reverse Percentages Answers

	Question	Answer	Marks
1) (a)	In August, 16% of all ice creams sold in Ifan's Ice Cream Parlour were chocolate flavoured. If 1368 chocolate ice creams were sold, how many ice creams were sold altogether?	16% = 1368	(1)
		1% = 85.5	(1)
		100% = 8550 ice creams	(1)
(b)	In August, Ifan's Ice Cream Parlour sold 52% more ice creams than it did in July. How many were sold in July?	152% = 8550	(1)
		1% = 56.25	(1)
		100% = 5625 ice creams	(1)
2) (a)	Jacob invested some money into a bank account with an interest rate of 2.4% per annum. After 1 year Jacob had £358.40 in his account. How much did Jacob invest?	102.4% = £358.40	(1)
		1% = 3.5	(1)
		100% = £350	(1)
(b)	How much would Jacob have in his account at the end of the second year?	100% = £358.40	(1)
		1% = 3.584	(1)
		102.4% = £367	(1)
3)	A chocolate breakfast cereal is made with a new recipe, containing 40% less sugar. If the breakfast cereal now contains 9g of sugar per serving, how much did it contain, per serving, before the recipe changed?	60% = 9g	(1)
		10% = 1.5g or 1% = 0.15g	(1)
		100% = 15g	(1)
4) (a)	A laptop is reduced by 25% to £390. Find the original price of the laptop.	75% = £390	(1)
		25% = £130 or 1% = £5.20	(1)
		100% = £520	(1)
(b)	The sale price is then reduced by 25%. Ashley says that the laptop will now be half price. Is Ashley correct? Give a reason for your answer.	No	(1)
		25% of £390 is less than 25% of £520 so the overall reduction will be less than 50%.	(1)

Where to go next?

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