

GCSE Exam Questions

Fractions, Decimals and Percentages | Number



(1)

GCSE Exam Questions: Fractions, Decimals and Percentages

1) (a) Write $\frac{3}{5}$ as a decimal.

(1)

(b) Write 0.3 as a fraction.

(c) Write 0.57 as a percentage.

(1) (3 marks)

2) Victoria's weight decreased from 67.2kg to 59.3kg.

Calculate the percentage decrease in Victoria's weight.

Give your answer to 3 significant figures.

(3 marks)

A family ticket to the cinema costs £24 plus VAT at 20%.

Work out the total cost of the family ticket.

(3 marks)

4) Prove algebraically that the recurring decimal

 $0.5\dot{2}\dot{1}$

has the value of $\frac{86}{165}$

(4 marks)



GCSE Exam Questions: Fractions, Decimals and Percentages

	Question	Answer	Marks
1) (a)	Write $\frac{3}{5}$ as a decimal.	(a) 0.6	(1)
(b)	Write 0.3 as a fraction.	(b) $\frac{3}{10}$	(1)
(c)	Write 0.57 as a percentage.	(c) 57%	(1)
2)	Victoria's weight decreased from 67.2kg to 59.3kg. Calculate the percentage decrease in Victoria's weight. Give your answer to 3 significant figures.	$67.2 - 59.3 = 7.9$ $\frac{7.9}{67.2} \times 100 = 11.7559$ 11.8%	(1) (1) (1)
3)	A family ticket to the cinema costs £24 plus VAT at 20%. Work out the total cost of the family ticket.	20% is £4.80 £24 + £4.80 £28.80	(1) (1) (1)
4)	Prove algebraically that the recurring decimal $0.5\dot{2}\dot{1}$ has the value of $\frac{86}{165}$	$x = 0.5212121$ $100x = 52.12121$ $99x = 51.6$ $x = \frac{51.6}{99} = \frac{516}{990} = \frac{86}{165}$	(1) (1) (1) (1)

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