

GCSE Exam Questions

Substitution | Algebra



(1)

GCSE Exam Questions: Substitution

1) (a) Work out the value of 3x + 2y when x = 6 and y = 4

3) Given that a = 5 and b = 8, state whether each of the following statements are true or false.

Give reasons for your answers.

(a) ab = 58

(b) $3a^2 = 75$

(2)

(2) (4 marks)



GCSE Exam Questions: Substitution Answers

	Question	Answer	Marks
1) (a)	Work out the value of $3x + 2y$ when $x = 6$ and $y = 4$.	$3 \times 6 + 2 \times 4 = 26$	(1)
(b)	Work out the value of $\frac{4a - 10b}{5}$ when $a = 5$ and $b = -2$	$4 \times 5 = 20 \text{ and } 10 \times -2 = -20$ $\frac{2020}{5} = \frac{40}{5} = 8$	(1) (1)
2) (a)	Calculate the cost of hiring the canoe for 6 hours.	$C = 20 + 2.5 \times 6$ C = 20 + 15 $C = (\pounds) 35$	(1) (1)
(b)	For how many hours did Lucy hire the canoe if she paid £27.50?	27.50 = 20 + 2.5h 7.50 = 2.5h h = 3	(1)
3) (a)	<i>ab</i> = 58	False ab means $a \times b$	(1) (1)
(b)	$3a^2 = 75$	True a^2 is calculated first, then multiply by 3	(1) (1)

Where to go next?

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