

AQA, OCR, Edexcel

GCSE

GCSE Maths

Straight Lines and Gradients

Answers

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Total Marks: /21

Straight Lines and Gradients (Written Problems)

1. Answer the following questions about straight line graphs:
 - a. What is the equation of a straight line and what does each letter represent? (2)
 - $y = mx + c$
 - y and x are coordinates on the line, m is the gradient and c is the y intercept.
 - b. Give the equation of the straight line that passes through $(0,0)$ with gradient 1.
 - $y = x$

(4 Marks)

2. Give that equation of the straight line with gradient 2 that passes through $(1,4)$ and $(2,6)$.
 - $y = 2x + 2$

(2 marks)

3. A straight line has a gradient of 2 and passes through $(0,2)$. Write down another coordinate that the line passes through.
 - *Any coordinate that lies on the line $y = 2x + 2$. E.g. $(1,3)$, $(-1,0)$ etc*

(2 marks)

4. A line passes through the points $(0,-2)$ and $(-1,-4)$ and crosses the y axis at -2 . Find the equation of the straight line.
 - $y = 2x - 2$

(2 marks)

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5. A straight line passes through (0,0) and (2,8). Find the equation of the line.

- $y = 4x$

(4 marks)

6. A straight line passes through (4,4) and (6,12). Find the equation of the line.

- $y = 4(x - 3)$

(4 marks)

7. A line crosses the y axis at 2 and passes through (1,4). Find the equation of the line.

- $y = 2(x + 1)$

(3 marks)