### Name:

# GCSE (1 – 9)

# The Gradient of a Line

#### Instructions

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out**.

### Information

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

#### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

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7	Find the gradient of the line that passes through $(2, 1)$ and $(5, 10)$ .	
		(Total for question 7 is 2 marks)
8	Find the gradient of the line that passes through $(5, 4)$ and $(7, 0)$ .	
		(Total for question 8 is 2 marks)
0	Find the gradient of the line that pages through $(2, 4)$ and $(5, 8)$	
9	Find the gradient of the line that passes through $(-5, 4)$ and $(5, 8)$ .	
		(Total for question 9 is 2 marks)

10	Find the gradient of the line that passes through $(3, 7)$ and $(1, 10)$ .	
		(Total for question 10 is 2 marks)
11	Find the gradient of the line that passes through $(1, -1)$ and $(-3, -9)$	).
		(Total for question 11 is 2 marks)
10		
12	Find the gradient of the line that passes through $(8, 1)$ and $(3, -3)$ .	
		(lotal for question 12 is 2 marks)

13	Find the gradient of the line that passes through $(3, -1)$ and $(-2, 9)$ .
	(Total for question 13 is 2 marks)
	(Total for question to is a marks)
14	Find the gradient of the line that passes through $(-1, -2)$ and $(-3, 10)$ .
	(Total for question 1/1 is 2 marks)
15	Find the gradient of the line that passes through $(-3, 4)$ and $(-5, 7)$
10	That the gradient of the fine that passes through (3, 4) and (3, 7).
	(Total for question 15 is 2 marks)

16	The line <i>AB</i> passes through the points $A(2, -1)$ and $(6, k)$ .	
	The gradient of <i>AB</i> is 5.	
	Work out the value of <i>k</i> .	
		<i>k</i> =
		(Total for question 16 is 3 marks)
17	The line <i>AB</i> passes through the points $A(-3, 4)$ and $(k, 12)$ .	
	The gradient of $AB$ is 4.	
	Work out the value of <i>k</i> .	
		<i>k</i> =
		(Total for question 17 is 3 marks)
18	The line <i>AB</i> passes through the points $A(-2, k)$ and $(4, 8)$ .	
	The gradient of $AB$ is -2.	
	Work out the value of <i>k</i> .	
		k =
		(Total for question 18 is 3 marks)