teachably

Name _____

Date _____

GCSE Mathematics

F

Straight Line Graphs Practice

Foundation, Grade 4-6

Total Marks	Time	Questions
44	44 min	20

Instructions:

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

Edexcel-style questions

Q1

Grade 4 Edexcel style

For the line y = 3x + 5, write down the gradient and the y-intercept.

Answer _____

teachably **[2 marks]**

Q2

Grade 4 Edexcel style

For the line y = 2x + 1, work out the value of y when x = -1, x = 0 and x = 3.

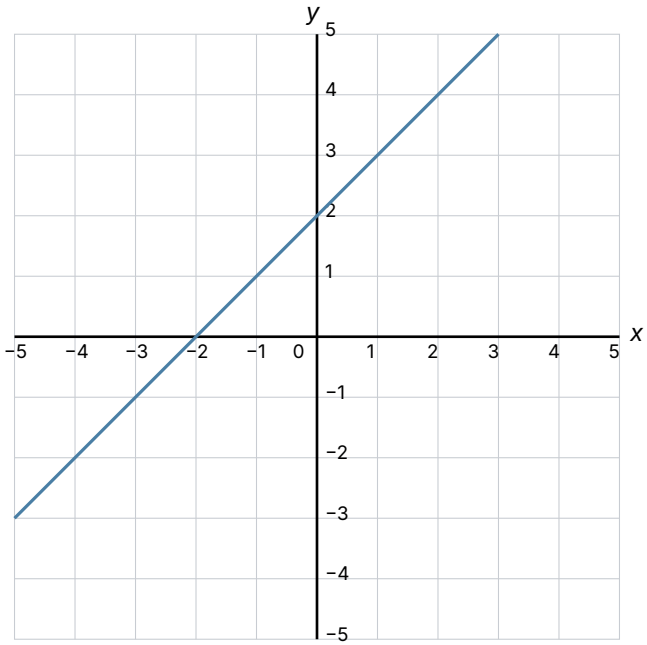
Answer _____

teachably **[3 marks]**

Q3

Grade 5 Edexcel style

The graph shows a straight line. Find the equation of the line in the form y = mx + c.



Answer _____

teachably **[2 marks]**

Q4

Grade 5 Edexcel style

Find the coordinates of the points where the line y = 2x - 6 crosses the x-axis and the y-axis.

Answer _____

teachably **[2 marks]**

Q5

Grade 6 Edexcel style

Does the point (3, 7) lie on the line y = 2x + 1? Show how you know.

Answer _____

teachably **[2 marks]**

AQA-style questions

Q6

Grade 4 AQA style

For the line y = -2x + 7, write down the gradient and the y-intercept.

Answer _____

teachably **[2 marks]**

Q7

Grade 4 AQA style

For the line y = 3x - 4, work out the value of y when x = -2, x = 0 and x = 2.

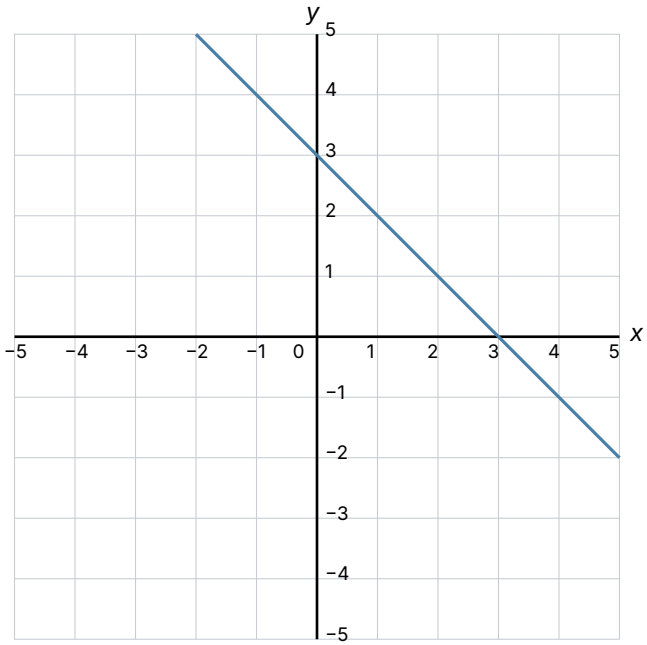
Answer _____

teachably **[3 marks]**

Q8

Grade 5 AQA style

The graph shows a straight line. Find the equation of the line in the form y = mx + c.



Answer _____

teachably **[2 marks]**

Q9

Grade 5 AQA style

Find the coordinates of the points where the line y = 3x + 9 crosses the x-axis and the y-axis.

Answer _____

teachably **[2 marks]**

Q10

Grade 6 AQA style

Does the point (4, 9) lie on the line y = 3x - 2? Show how you know.

Answer _____

OCR-style questions

Q11

Grade 4 OCR style

For the line y = 4x - 3, write down the gradient and the y-intercept.

Answer _____

teachably **[2 marks]**

Q12

Grade 4 OCR style

For the line y = -x + 5, work out the value of y when x = -3, x = 0 and x = 4.

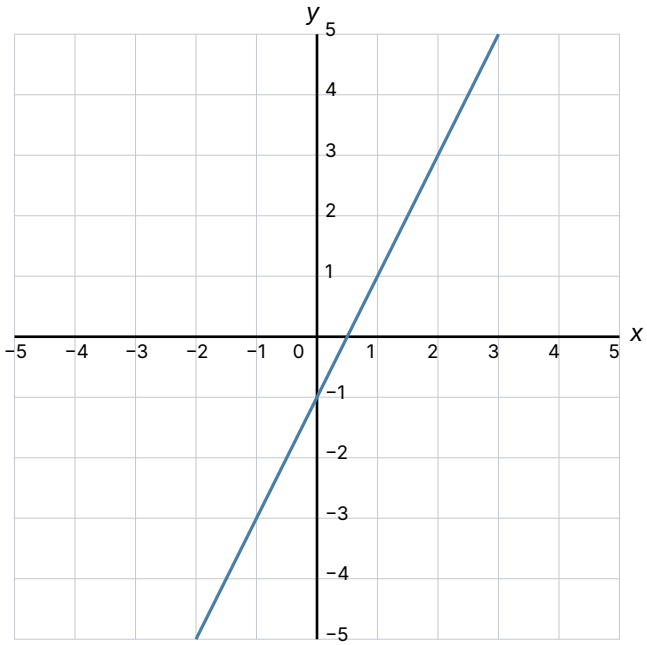
Answer _____

teachably **[3 marks]**

Q13

Grade 5 OCR style

The graph shows a straight line. Find the equation of the line in the form y = mx + c.



Answer _____

Q14

Grade 5 OCR style

Find the coordinates of the points where the line y = 4x - 8 crosses the x-axis and the y-axis.

Answer _____

Q15

Grade 6 OCR style

Does the point (-2, 8) lie on the line y = -3x + 2? Show how you know.

Answer _____

Teachably-style questions

Q16

Grade 4 Teachably style

For the line y = -x + 6, write down the gradient and the y-intercept.

Answer _____

teachably **[2 marks]**

Q17

Grade 4 Teachably style

For the line y = 4 - 2x, work out the value of y when x = -1, x = 0 and x = 2.

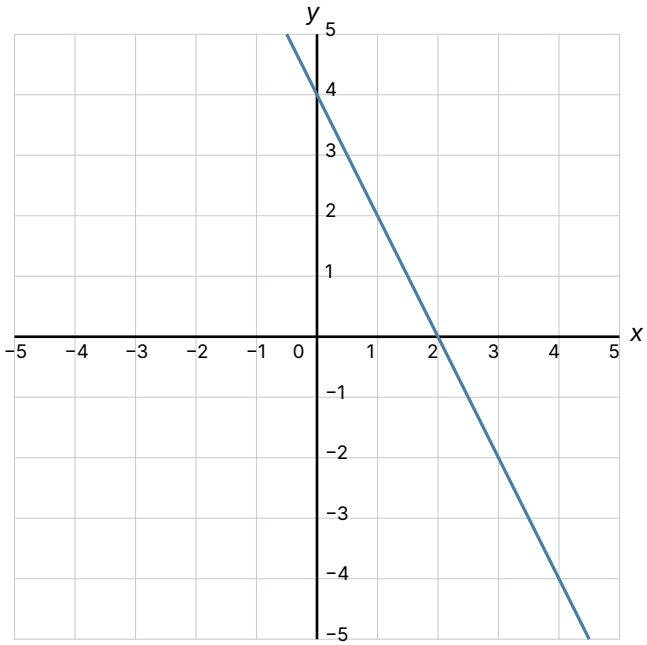
Answer _____

teachably **[3 marks]**

Q18

Grade 5 Teachably style

The graph shows a straight line. Find the equation of the line in the form y = mx + c.



Answer _____

teachably **[2 marks]**

Q19

Grade 5 Teachably style

Find the coordinates of the points where the line y = -2x + 10 crosses the x-axis and the y-axis.

Answer _____

teachably **[2 marks]**

Q20

Grade 6 Teachably style

Does the point (5, 10) lie on the line y = 2x - 3? Show how you know.

Answer _____

teachably **[2 marks]**

END OF PAPER