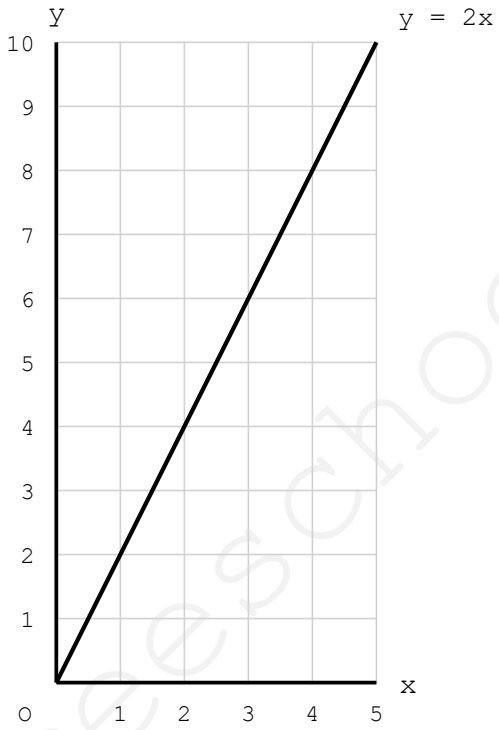
Coordinates & Graphs: Medium Practice Paper 3

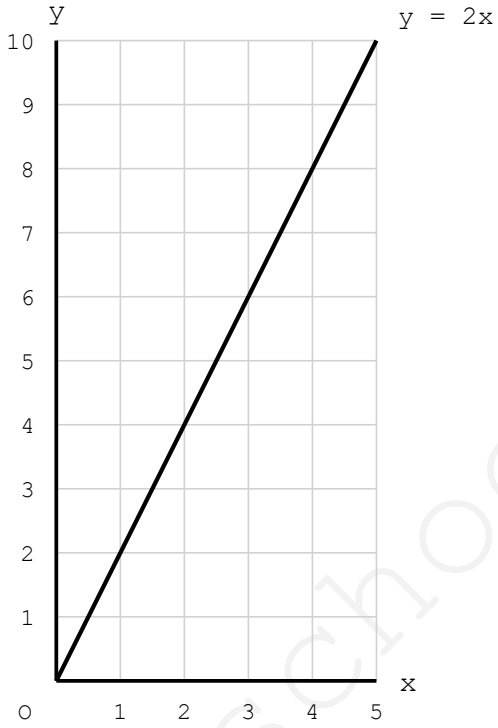
Q1. The line drawn on the grid is y = 2x. What is the value of y when x = 4?



A. 2 B. 4 C. 6 D. 8 E. 10

myfreeschool

Q2. Use the line y = 2x on the grid. For which value of x is y equal to 6?



A. 1 B. 2 C. 3 D. 6 E. 12

Q3. Which of these points lies on the line y = 3x − 1?

A. (2, 6) B. (3, 7) C. (1, 4) D. (5, 16) E. (4, 11)

Q4. This table follows the rule y = 2x + 1. What number is missing?

x: 0, 1, 2, 3, 4
y: 1, 3, 5, ?, 9

A. 6 B. 7 C. 8 D. 10 E. 11

Q5. Where does the line y = 2x − 3 cross the y-axis?

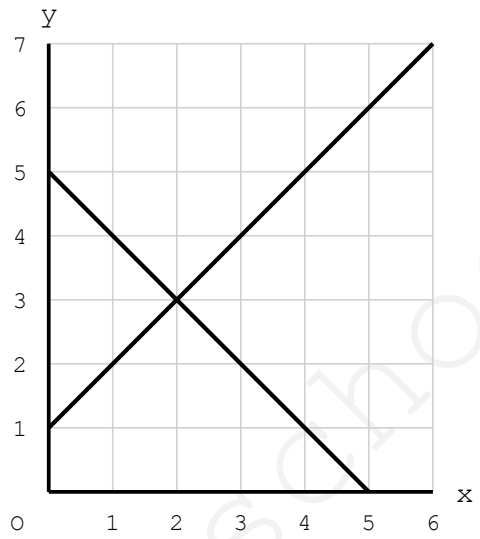
A. (0, 2) B. (0, 3) C. (3, 0) D. (0, −3) E. (−3, 0)

myfreeschool

Q6. Which of these lines is horizontal?

A. x = 4 B. y = 4 C. y = x D. y = 4x E. y = x + 4

Q7. The lines y = x + 1 and y = 5 − x are drawn on the grid. What are the coordinates of the point where they cross?



A. (1, 5) B. (2, 3) C. (3, 2) D. (2, 4) E. (3, 4)

Q8. A line passes through (0, 0) and (2, 6). What is its equation?

A. y = x + 6 B. y = 2x C. y = 6x D. y = x + 3 E. y = 3x

Q9. The point (4, k) lies on the line y = 2x − 1. What is the value of k?

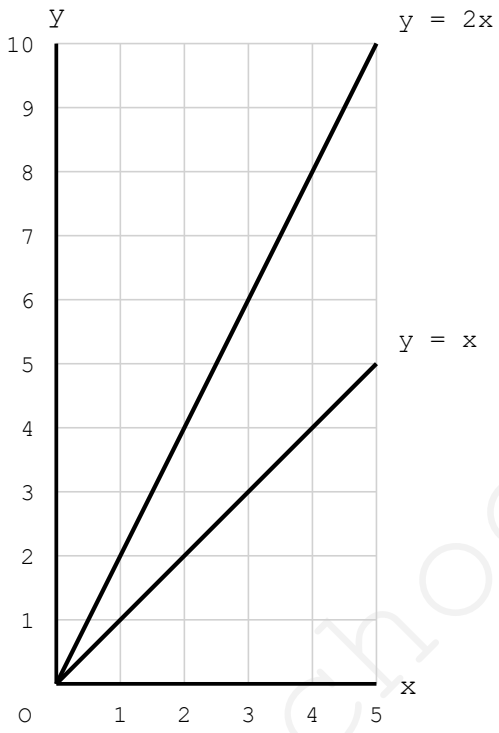
A. 5 B. 6 C. 7 D. 8 E. 9

Q10. Which of these points does NOT lie on the line y = 10 − x?

A. (2, 8) B. (4, 6) C. (6, 4) D. (7, 2) E. (9, 1)

myfreeschool

Q11. Which line drawn on the grid is the steeper one?



A. y = 2x, because y goes up 2 for every 1 across

B. y = x, because it is longer

C. y = x, because it passes through the origin

D. They are equally steep

E. y = 2x, because it starts higher up

Q12. Three points on a straight line are (1, 5), (2, 7) and (3, 9). What is the rule of the line?

A. y = x + 4

B. y = 2x + 3

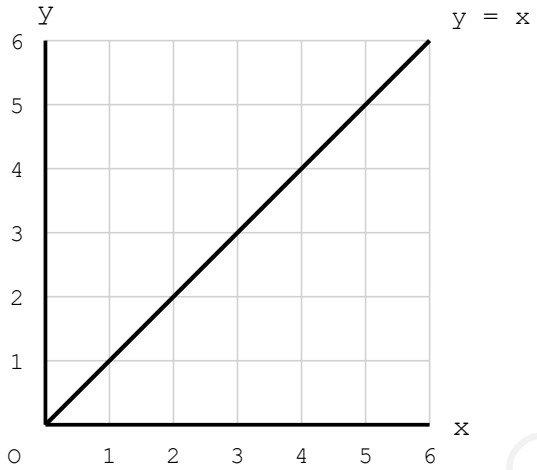
C. y = 3x + 2

D. y = 5x

E. y = 2x + 5

myFreeSchool

Q13. The line y = x is drawn on the grid. Which of these points lies above it?



A. (3, 3) B. (4, 2) C. (5, 1) D. (6, 6) E. (2, 5)

Q14. Which line would be parallel to the line y = 4x + 1?

A. y = 4x − 3

B. y = x + 1

C. y = 2x + 1

D. y = 5x + 1

E. x = 4

Q15. A line has the equation y = 12 − 2x. Where does it cross the x-axis?

A. (0, 12) B. (12, 0) C. (2, 0) D. (6, 0) E. (0, 6)

myfreeschool