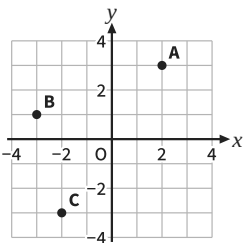


1 Coordinates

a) Write down the coordinates of A.

b) Write down the coordinates of B and C.



a) $A(2, 3)$

b) $B(-3, 1), C(-2, -3)$

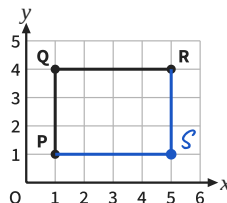
2 Coordinates

P, Q and R are three corners of rectangle PQRS.

a) Write down the coordinates of S.

b) Each square is 1 cm.

Find the perimeter.



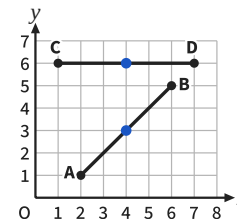
a) $S(5, 1)$

b) $4 + 3 + 4 + 3 = 14 \text{ cm}$

3 Midpoint of a line

a) Find the midpoint of CD.

b) Find the midpoint of AB.



a) $(4, 6)$

b) $(4, 3)$

4 Midpoint of a line

a) Find the midpoint of (2, 4) and (8, 10).

b) On a map, a bus stop is at (1, 3). A school gate is at (9, 7). A crossing is halfway between them. Find the coordinates of the crossing.

a) $\frac{2+8}{2}, \frac{4+10}{2} : (5, 7)$

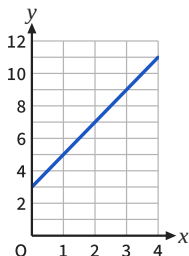
b) $\frac{1+9}{2}, \frac{3+7}{2} : (5, 5)$

5 Plotting straight lines

a) Complete the table for $y = 2x + 3$.

x	0	1	2	3	4
y	3		7		

b) Plot the points and join them with a ruler.



a) 3, 5, 7, 9, 11

b) a ruled line, (0, 3) to (4, 11)

Graphs 1

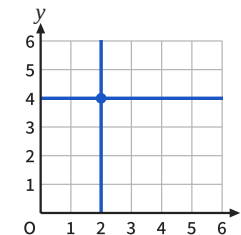
revision mat answers

Foundation B

6 Plotting straight lines

a) Draw and label the line $y = 4$.

b) Draw and label the line $x = 2$. Where do the two lines cross?



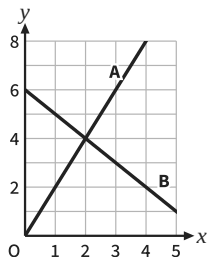
a) drawn on the grid

b) (2, 4)

7 Gradient of a line

a) Line A: how many squares up for 1 across?

b) Line B goes down 1 for 1 across. Write down its gradient.



a) 2: the gradient of A is 2

b) -1

8 Gradient of a line

a) A line goes up 12 squares for 4 squares across. Work out its gradient.

b) Work out the gradient of the line through (1, 2) and (3, 10).

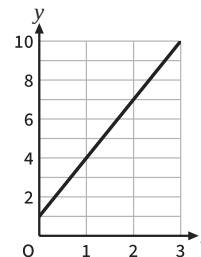
a) $12 \div 4 = 3$

b) up 8, across 2: $8 \div 2 = 4$

9 Equation of a line

a) How many squares up for 1 across?

b) Where does it cross the y axis? Complete $y = \dots x + \dots$



a) 3 b) at 1

$y = 3x + 1$

10 Equation of a line

Line L has equation $y = 4x + 3$.

a) Write down the gradient of L.

b) Does the point (2, 11) lie on L? Show your working.

a) 4

b) $4 \times 2 + 3 = 11$, so yes