

Mark schemes

Q1.

(a) (1, 6)

B1

(b) Mark at (6, 4)

Accept cross, dot etc

Mark must be intended to be on line BC

B1

(c) $2 \times \text{their } 4 + 2 \times \text{their } 5$ or $8 + 10$

4 or 5 must be correct

M1

18

SC1 22

A1

[4]

Q2.

(a) (1, 3)

B1

(b) Plot at (5, 3) or lines drawn to form rectangle

letter D need not be seen

B1

(c) $3 + 4 (= 7)$

oe ± 1 mm for each length

M1

14

A1

[4]

Q3.

(a) (2, 5)

B1

(b) *B* plotted at (8, 1)

B1

(c) (5, 3)

ft from their B

B1 ft for 1 number correct or point shown on grid

B2 ft

[4]

Q4.

(a) (2, 4)

(b) Point B plotted at $(-3, -1)$

B1

B1

(c) $(2, -1)$

ft from their (a)

B1 ft

[3]

Q5.

(a) $(5, 2)$

B1

(b) Point correctly indicated on grid at $(1,2)$

B1

(c) $(A, 4)$ and $(B, 4)$

B1 one correct point

where A and B are two different numbers

SC1 line $y = 4$ drawn

SC1 two correct points and no incorrect points marked on graph

B2

[4]

Q6.

(a) $x = 2$

B1

(b) Correct straight line drawn

at least 3 diagonal squares long

B1

(c) $2, 2$

ft their intersection with line A only if B0 in part (b)

B1ft

[3]

Q7.

Alternative method 1

Plots $(-1, 2)$ and $(1, 6)$

Mark intention

M1

Fully correct ruled line through the correct points

A1

Draws the line $y = x$

B1

$(-4, -4)$

ft their intersection

B1ft

Additional Guidance

Correct line drawn implies points (-1, 2) and (1, 6) are plotted

M1A1

Alternative method 2

$$\text{Gradient} = \frac{6-2}{1-(-1)} \text{ or } \frac{2-6}{-1--1} \text{ or } 2$$

oe

Implied by the correct equation

M1

$$(y =) 2x + 4$$

Correct function for their gradient

M1dep

$$\text{their } 2x + 4 = x$$

ft their function

M1

$$(-4, -4)$$

A1

Additional Guidance

$$\frac{6-2}{1-(-1)} = -2$$

M1

$$y = -2x + 4$$

M1

$$-2x + 4 = x$$

M1

$$x = \frac{4}{3}$$

A0

[4]

Q8.

Identifies or plots any two correct points

points with integer values are

x	-3	-2	-1	0	1	2	3
y	5	4	3	2	1	0	-1

may be in a list

ignore incorrect plots

M1

Correct straight ruled line from $(-3, 5)$ to $(3, -1)$
ignore incorrect plots if correct line drawn

A1

Additional Guidance

Correct line, but not extending from $(-3, 5)$ to $(3, -1)$

M1A0

Two lines, one correct and one incorrect

M1A0

[2]

Q9.

(a) $-5 \ 1 \ 7 \ 10$

B1 for 2 or 3 correct

B2

(b) At least 2 of their points correctly plotted

M1

Straight ruled line drawn from $(-3, -8)$ to $(3, 10)$

A1

(c) Draws the line $y = x$ on the grid
or $-2x = 1$ or $-1 = 2x$

oe

M1

$\frac{1}{-2}$

oe

A1

[6]

Q10.

3 different mistakes identified

B1 for each different mistake identified from

It should be a straight line

Point $(0, 1)$ plotted incorrectly

Two 3s on x -axis

Axes not labelled

Line not labelled ($y = x + 1$)

B3

Additional Guidance

Accept equivalent statements

[3]

Q11.

(a) (2, 5)

B1

(b) Point (6, 1) plotted

B1

(c) (6, 5)

ft if (6, 1) is wrongly plotted but their D completes a rectangle

B1 ft

(d) (4, 3)

ft for rectangle

B1 ft

[4]**Q12.**

$$\frac{x+3x}{2} = -4$$

$$\text{or } 4x = 2 \times -4 \text{ or } 4x = -8$$

$$\text{or } 2x = -4$$

oe

M1

$$x = -2$$

oe

A1

$$\frac{2y+4y}{2} = 15$$

$$\text{or } 6y = 2 \times 15 \text{ or } 6y = 30$$

$$\text{or } 3y = 15$$

oe

M1

$$y = 5$$

oe

A1

[4]**Q13.**

(a) -7

B1

5

B1

(b) At least 2 points correctly plotted

May be implied from a correct line

M1

Straight ruled line drawn from -3 to 3

$\pm \frac{1}{2}$ square tolerance

A1

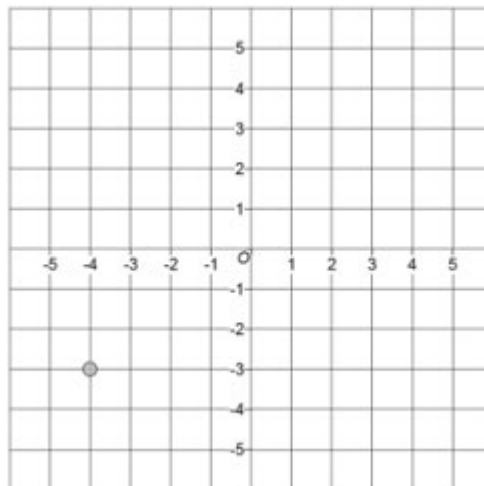
[4]

Q14.

(a) (-2, 3)

B1

(b) Point plotted at (-4, -3)



B1

(c) (-4, -3)

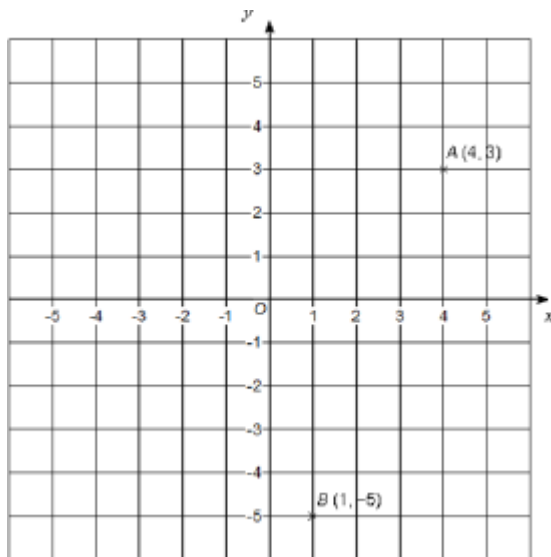
ft their plotted point
eg (6, -3) if used (ABDC)

B1 ft

[3]

Q15.

(a)



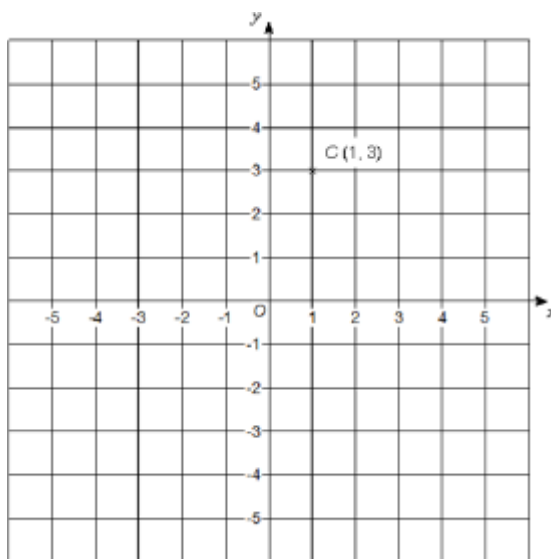
A plotted correctly
Need not be labelled

B1

B plotted correctly
Need not be labelled

B1

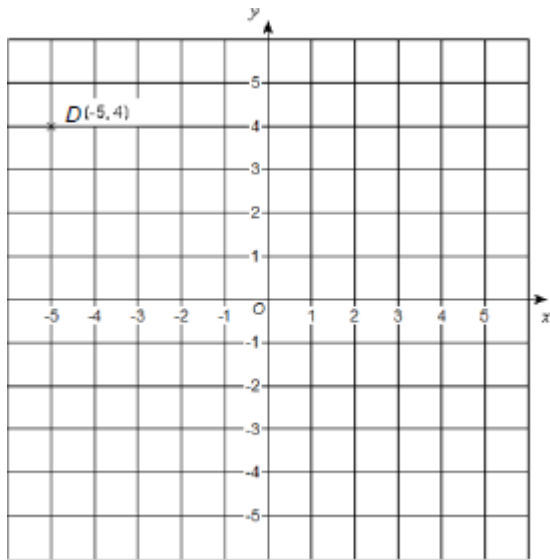
(b)



C plotted at (1, 3)
Need not be labelled

B1

(c)



D plotted at $(-5, 4)$

B1 for one coordinate correct

Need not be labelled

B2

[5]