

Co-ordinate Geometry

Difficulty: Easy

Question Paper 1

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Co-ordinate Geometry
Sub-Topic	Co-ordinate Geometry
Paper	Paper 2
Difficulty	Easy
Booklet	Question Paper 1

Time allowed: 45 minutes

Score: /35

Percentage: /100

Grade Boundaries:

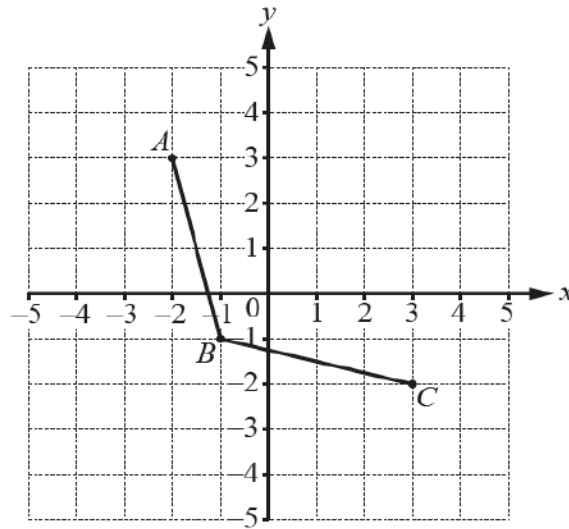
CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

CIE IGCSE Maths (0980)

9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

Question 1



The diagram shows two sides of a rhombus $ABCD$.

(a) Write down the co-ordinates of A .

[1]

(b) Complete the rhombus $ABCD$ on the grid.

[1]

Question 2

$$y = mx + c$$

Find the value of y when $m = -2$, $x = -7$ and $c = -3$.

[2]

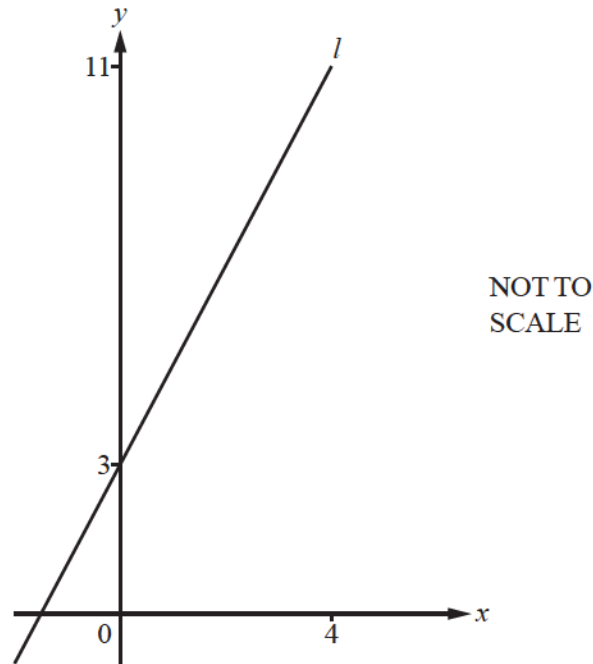
Question 3

The point A has co-ordinates $(-4, 6)$ and the point B has co-ordinates $(7, -2)$.

Calculate the length of the line AB .

[3]

Question 4



The diagram shows the straight line, l , which passes through the points $(0, 3)$ and $(4, 11)$.

(a) Find the equation of line l in the form $y = mx + c$.

[3]

(b) Line p is perpendicular to line l .

Write down the gradient of line p .

[1]

Question 5

Find the equation of the line passing through the points with co-ordinates $(5, 9)$ and $(-3, 13)$. [3]

Question 6

$A(5, 23)$ and $B(-2, 2)$ are two points.

(a) Find the co-ordinates of the midpoint of the line AB . [2]

(b) Find the equation of the line AB . [3]

(c) Show that the point $(3, 17)$ lies on the line AB . [1]

Question 7

Find the equation of the line passing through the points $(0, -1)$ and $(3, 5)$.

[3]

Question 8

(a) The two lines $y = 2x + 8$ and $y = 2x - 12$ intersect the x -axis at P and Q .

Work out the distance PQ .

[2]

(b) Write down the equation of the line with gradient -4 passing through $(0, 5)$.

[2]

(c) Find the equation of the line parallel to the line in **part (b)** passing through $(5, 4)$.

[3]

Question 9

(a) Find the co-ordinates of the midpoint of the line joining $A(-8, 3)$ and $B(-2, -3)$.

[2]

(b) The line $y = 4x + c$ passes through $(2, 6)$.

Find the value of c .

[1]

(c) The lines $5x = 4y + 10$ and $2y = kx - 4$ are parallel.

Find the value of k .

[2]