

Nelson Maths 9 for the CSF II

Homework and Assessment Sheets

Simultaneous equations

AL 9-5

Name: _____ Class: _____

Due date: _____ Parent's signature: _____

Level 5					/10	Level 6					/20

Part A: Level 5

Name the positions labelled A to C as ordered pairs (and label).

1 $A = (\text{_____}, \text{_____})$

2 $B = (\text{_____}, \text{_____})$

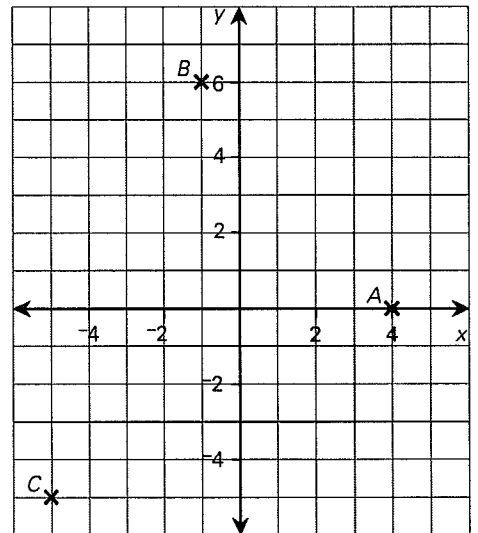
3 $C = (\text{_____}, \text{_____})$

On the axes shown, plot the points (and label).

4 $E = (2, -4)$

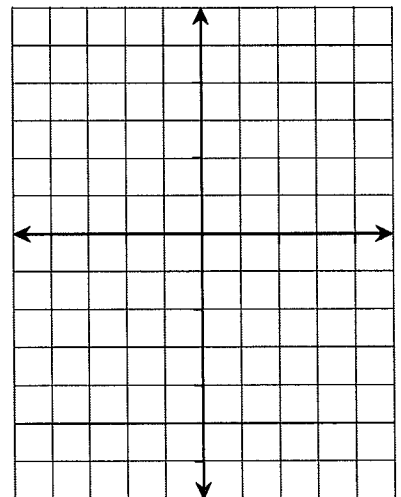
5 $F = (-3, 2)$

6 $G = (0, -3)$



7 to 10 Plot a graph of $y = 3x - 2$ by completing the table below (2 marks) and plotting the values as ordered pairs (2 marks).

x	-3	-2	-1	0	1	2	3
y							



Part B: Level 6

Transform the following equations to make y the subject in each case.

1 $3x + 2y = 9$

2 $9x - 3y = 12$

On the axes drawn sketch each of the following lines.

3 $3y + x = 17$

4 $y = 2x + 1$

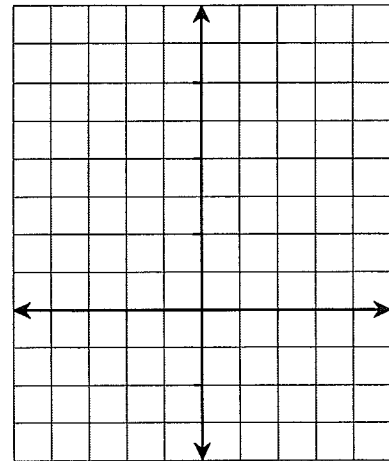
5 Write the point of intersection as an ordered pair. (_____, _____)

Find the point $B(2, ?)$ which is joined to $A(0, 0)$ by a straight line with each of these gradients.

6 $m = 5, B = (2, \text{_____})$

7 $m = -3, B = (2, \text{_____})$

8 $m = \frac{-3}{2}, B = (2, \text{_____})$



9 to 13 Find the point of intersection of these two lines using the method of substitution (5 marks).

$y = x - 3$ and $3x + 2y = 14$

14 to 18 Find the point of intersection of these two lines using the method of elimination (5 marks).

$2x + y = 15$ and $6x - 2y = 10$

Write a pair of equations for each of these number problems.

19 A pair of numbers x and y , such that their sum is 20 and their difference is 6

20 A pair of numbers n and m such that their difference is 2 and when the first number is tripled and added to the second, the answer is 6

P
u
z
z
l
e
r

An ice cube will melt in 50 minutes at 3°C ,
30 minutes at 5°C and 25 minutes at 6°C .
How long will it take to melt at 10°C ?

Vocabulary

Write the mathematical meaning of:

Elimination _____

Simultaneous _____