

YEAR 7 MATHS



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Name: _____

4. (a) Write down the coordinates of the point

(i) A, (.....,)

(ii) C. (.....,)

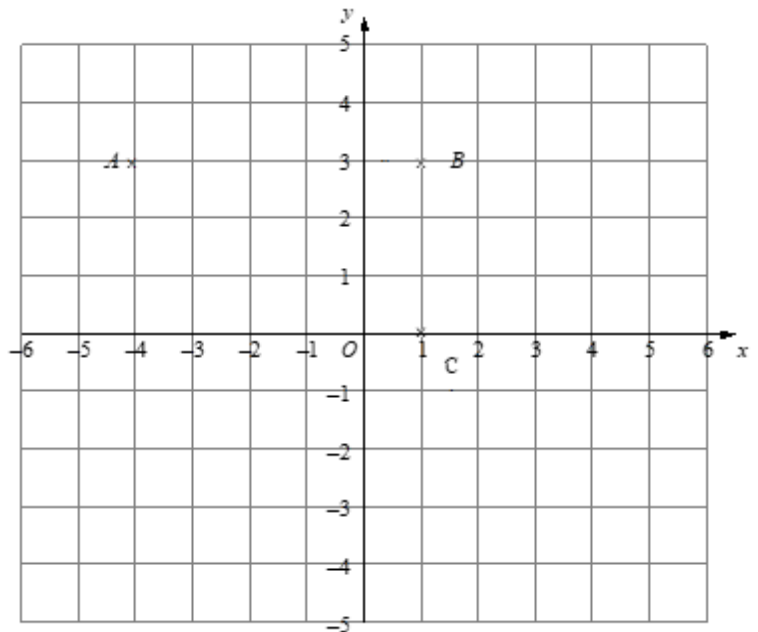
(2)

- (b) (i) On the grid, mark the point D so that $ABCD$ is a rectangle.

(ii) Write down the coordinates of D .
(.....,)

(2)

(Total 4 marks)



5. (a) Write down the coordinates of the point A.

(.....,)

(1)

- (b) Write down the coordinates of the point B.

(.....,)

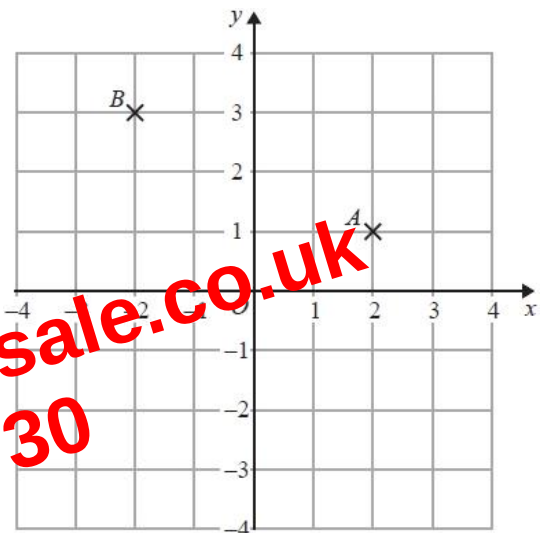
(1)

- (c) On the grid, mark with a cross (x) the point $(-3, -1)$. Label this point C.

(1)

(Total for question = 3 marks)

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6. (a) (i) Write down the coordinates of the point A.

(.....,)

- (ii) Write down the coordinates of the point B.

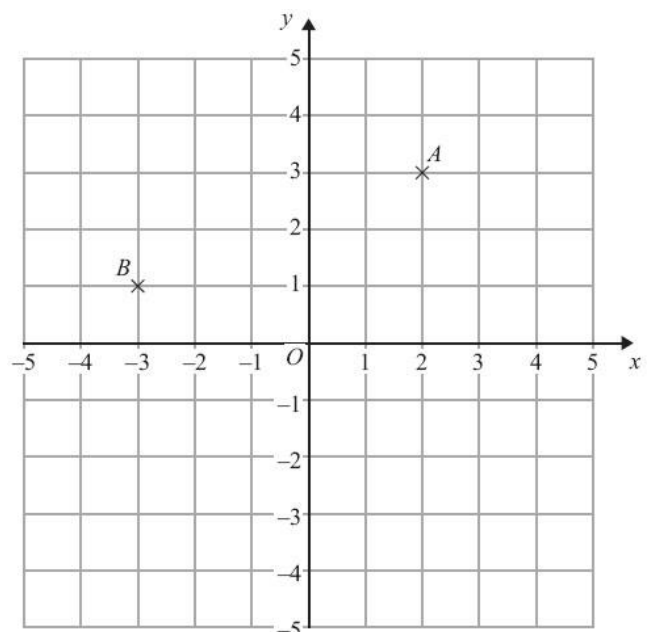
(.....,)

(2)

- (b) On the grid, mark with a cross the point $(3, -4)$. Label this point C.

(1)

(Total for Question is 3 marks)



5. Here are some patterns made from sticks.



Pattern number 1



Pattern number 2



Pattern number 3

- (a) Draw Pattern number 4 in the space below.

- (b) How many sticks are needed for Pattern number 12?

(1)

Sunil says that he will need 70 sticks for Pattern number 20

- (c) Is Sunil correct? You must give a reason for your answer.

(2)

(Total for Question is 5 marks)

6. Here are the first 6 terms of a number sequence.

5 9 13 17 21 25

- (a) Write down the next term of the sequence.

(1)

- (b) (i) Work out the eleventh term of the sequence.

- (ii) Explain how you found your answer.

(Total for Question is 3 marks)

4. (a) Simplify $a \times c \times 3$

.....
(1)

(b) Simplify $p \times p \times p$

.....
(1)

(c) Simplify $5x - 4y + 3x - 3y$

.....
(2)
(Total for Question is 4 marks)

5. (a) Simplify $5a - 2a$

.....
(1)

(b) Simplify $3 \times 4y$

.....
(1)

(c) Simplify $3e + 4f + 2e + f$

.....
(2)
(Total for Question is 4 marks)

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3. (a) Solve $6g = 18$

$g = \dots\dots\dots$
(1)

(b) Solve $5h + 7 = 17$

$h = \dots\dots\dots$
(2)

(Total for Question is 3 marks)

4. (a) Solve $x + 9 = 19$

$x = \dots\dots\dots$
(1)

(b) Solve $2y = 17$

$y = \dots\dots\dots$
(1)

(c) Solve $\frac{w}{4} = 8$

$w = \dots\dots\dots$
(1)

(Total for Question is 3 marks)

5. (a) Solve $\frac{n}{7} = 2$

$n = \dots\dots\dots$
(1)

(b) Solve $3g + 4 = 19$

$g = \dots\dots\dots$
(2)

(Total for Question is 3 marks)

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