Expanding brackets

Question 1

Expand and simplify

$$5(4x + 3) - (3x - 1)$$

.....

(2 marks)

Question 2

Expand and simplify

$$3(c - 7) + 2(3c + 4)$$

.....

(2 marks)

Question 3

Expand and simplify $4(2d + 3) - 2(3d - 5)$

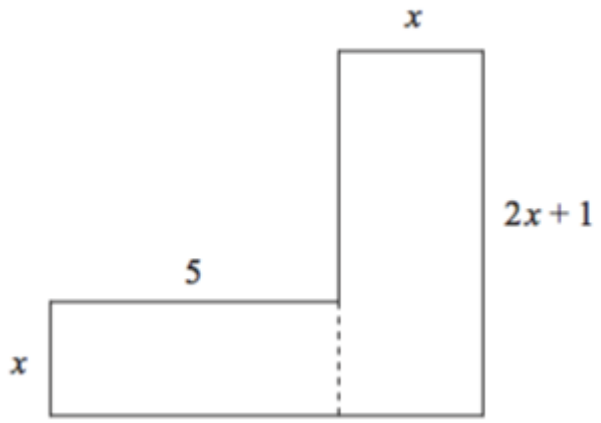
.....

(2 marks)

Question 4

The diagram below shows a 6-sided shape.
All the corners are right angles.
All the measurements are given in centimetres.

Diagram **NOT** accurately drawn



The area of the shape is 95 cm^2.

(a) Show that $ax^2 + bx + c = 0$ where a, b and c are integers to be found.

$a =$ .....

$b =$ .....

$c =$ .....

(3 marks)

Question 5

Expand and simplify

$$4x(x + 3) - (2x - 3)^2$$

.....

(3 marks)

Question 6

Simplify

$$7x - 2(x - 3y) - 4y$$

.....

(3 marks)

Question 7

Expand and simplify

$$(x + 2)(x + 3)$$

.....

(2 marks)

Question 8

Amzol thinks that $(x + 5)^2 = x^2 + 25$ for all values of x.

Is Amzol right?
You must show how you get your answer.

[ ] Yes

[ ] No

(2 marks)

Question 9

Expand and simplify

$$(5x + 2)(2x - 3)$$

.....

(2 marks)

Question 10

Expand and simplify

$$(x - 9)(x + 2)$$

.....

(2 marks)

Question 11

Expand and simplify $(2x + 3)(x - 8)$

.....

(2 marks)

Question 12

Expand and simplify

$$(3x - 1)(x + 5)(4x - 3)$$

.....
