SIMPLIFYING ALGEBRIC EXPRESSIONS

Lv-I Multiplying a single positive integer over a bracket

3(a+6)

_____

4(a - 3)

_____

2 (6c + 4)

_____

4 (7d + 5)

_____

7 (4e + 3)

_____

-5 (2f - 9)

_____

2 (3g - 8)

_____

-10(9h - 9)

_____

12 (12j - 9)

_____

4(10k - 11)

_____

BONUS PROBLEM !!!!

9(y – 2) + 4y + 3

_____

Lv- 2 Collecting like terms when 2 terms are repeated.

(Simplify by removing the brackets)

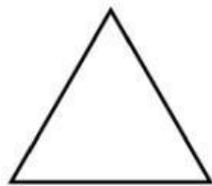|	
$(2a - 2) + (4a + 5)$ _____	$(5b + 6) + (2b - 4)$ _____
$(6c + 2) - (6c + 4)$ _____	$(9d - 6) - (7d - 2)$ _____
$(11e + 8) - (3e + 5)$ _____	$(6f + 9) - (4f - 4)$ _____
$(10i + 18) - (2i + 11)$ _____	$(15m + 12) - (8m - 10)$ _____
$(6k + 8) - (4k + 4)$ _____	$(14j - 12) - (6j - 8)$ _____

BONUS PROBLEM – 1

$5(2x - 3) - 3(x + 4)$

_____

BONUS PROBLEM – II

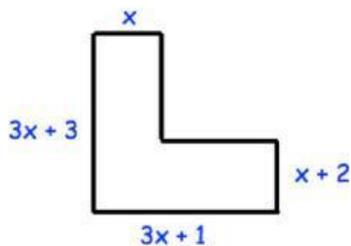Here is an equilateral triangle with side (2x+30)cm. The perimeter is

2x + 30

_____ cm

BONUS PROBLEM – III

Here is L shape , The perimeter of the following shape is :

x

3x + 3

x + 2

3x + 1

_____ cm

BONUS PROBLEM – IV

Below is a parallelogram and an isosceles triangle. Which shape has the greatest perimeter ?

6x + 7

2x

7x + 5

2x + 3

_____