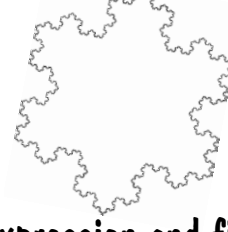
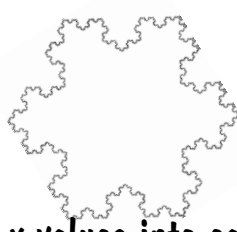


Christmas Tree Puzzle



Simplify each of the expressions. Substitute the correct x values into each expression and find the sum of them all to discover the total.

$$x + x$$

$$(x+5)^2$$

$$3(5x - 10)$$

$$x^2 + x^2 + x^2$$

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

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

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

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



Answers. The corresponding value of x is in the bracket. E.g. for (1) $x=1$

a. (1) x (2) $2x$ (3) x^2 (4) $x + 2$

b. (1) $x^2 + 25$ (2) $x^2 + 5x + 10$ (3) $x^2 + 10x + 25$ (4) $x^2 + 5x + 25$

c. (1) $15x - 13$ (2) $8x - 13$ (3) $15x - 30$ (4) $8x - 30$

d. (1) x^6 (2) $3x^6$ (3) $3 + x^2$ (4) $3x^2$

e. (1) $2x^2 + 11x + 12$ (2) $2x^2 + 7x + 12$ (3) $2x^2 + 10x + 12$

f. (1) $18x + 12$ (2) $9x + 20$ (3) $9 + 21x$ (4) $9x + 11$

g. (1) $25 + 5x$ (2) $12x + 10$ (3) $6x + 10$ (4) $12x + 25$

h. (1) $19x + 5$ (2) $19x + 7$ (3) $19x + 12$ (4) $6x + 12$

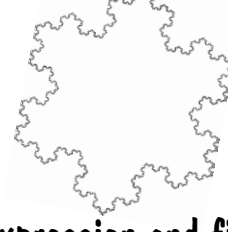
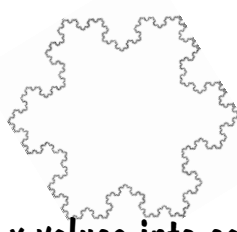
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Total:

<input type="text"/>



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4

124

15

48

25

38

34

45

Total:

333

