ALGEBRA, LIKE TERMS AND EXPANDING BRACKETS

Name:

Unscramble the two sets of letters this topic!

and describe the words related to

RESEARCH

Research what it means to factorise expressions and how it might relate to this homework moving forward in the topic.

MEMORYRemember when we multiply algebraic expressions we add the powers!

e.g.
$$2x^2 \times 4x^3 = 8x^6$$

Remember that when there is no powers we have a 'secret 1'

e.g. 2x can also be written as 2x¹

So
$$2x^1 \times 5x^2 = 10x^3$$

SKILL

1. Simplify the following expressions:

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a)
$$5x - 2x$$

ITERACY

b)
$$8y + 3y$$

2. Simplify the following expressions:

a)
$$5x^2 \times 2x^2$$

b)
$$7y^2 \times 2y$$

c)
$$10a^3 \times 7a^2$$

d)
$$4h^3 \times 9h^3$$

3. Expand the following brackets:

4. Expand the following brackets:

1. Simplify the following expressions

a) 3ab x 4b

b) $5a^{2}b \times 3a^{2}b$

2. Expand and simplify the following brackets:

a) 2ab(3b - 5)

b) $4ab(2a^2b + 8b)$