

# COMBINING LIKE TERMS

$$7x + 3 - 5x + 8 + 4x - 1$$

## Variable Terms

(Terms WITH a variable)

$$7x, -5x, 4x$$

## Constant Terms

(Terms WITHOUT a variable)

$$3, 8, -1$$

## Coefficients

(Number NEXT TO A variable)

$$7, -5, 4$$

You can simplify an expression by combining like terms!

$$7x + 3 - 5x + 8 + 4x - 1 = \underline{6x + 10}$$

1.  $3x + 6x$

$$9x$$

2.  $9a - 10a$

$$-1a$$

3.  $7m - 5m - 6$

$$2m - 6$$

4.  $9 - 6x + 5$

$$-6x + 14$$

5.  $7p - 1 - 9p + 5$

$$-2p + 4$$

6.  $5h - 6 - 8 + 7h$

$$12h - 14$$

7.  $5x^2 + 7x^2$

$$12x^2$$

8.  $5x + 7y - x + 2y + 3x$

$$7x + 9y$$

9.  $26x + 2y - 4x + 10y$

$$22x + 12y$$

10.  $8x^3 - 7x^3 + 16x^3$

$$17x^3$$

11.  $-4a^2b + 7 + 10a^2b$

$$6a^2b + 7$$

12.  $x^2 + 2xy - 7xy + 4y^2$

$$x^2 - 5xy + 4y^2$$

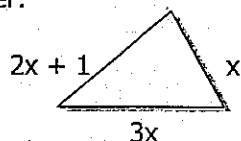
13.  $a^2 + 7ab - 10ab + b^2$

$$a^2 - 3ab + b^2$$

14.  $4x^2 + 2x - 3x^2 + 8x$

$$x^2 + 10x$$

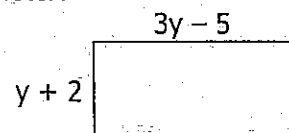
15. Find the perimeter:



$$2x + 1 + 3x + x + 3x$$

$$6x + 1$$

16. Find the perimeter:



$$y + 2 + y + 2 + 3y - 5 + 3y - 5$$

$$8y - 6$$

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