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## EXPRESSIONS WORKSHEETS

1) Identify the algebraic expression(s) among the following.

a)  $3a - b - \frac{1}{2} = 1$

b)  $3a - 2b$

c)  $(pqr)^2 + 2pq - 3$

d)  $x = y$

2) Jim is asked to convert the following phrases into algebraic expressions. Can we help him?



a) sum of  $x$  and  $y$  is subtracted from their product.

b) 5 more than the sum of  $x$  and the reciprocal of  $y$ .

c) The difference of squares of  $m$  and  $n$ .

3) Identify the terms with  $x^3$  and find the coefficient of  $x^3$  in the following expressions:

a)  $x^3y^2 + 3$

b)  $x^2 + x$

c)  $3x^2y^2 - 2 + 5x^3y$

4) Classify the following as monomials, binomials, and trinomials.

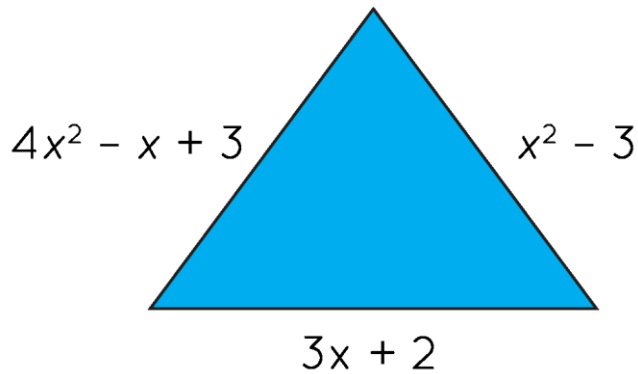
a)  $3x + 4y - z$

b)  $2y - \frac{1}{2} + x$

c)  $3x + \frac{y}{4}$

5) Simplified form of  $2(x+4)+3(x-5)-2y=$  \_\_\_\_.

6) Find the perimeter of the following triangle as an algebraic expression:



7) Find the difference.

a)  $(-3g + 8) - (5g + 12)$

b)  $\left(\frac{3}{4}x + 5\right) - \left(-\frac{5}{4}x + 12\right)$

8) Simplify the following using distributive property.

$$-\frac{7}{2}(3y - 6) + 2\left(5 - \frac{9}{2}y\right)$$

9) Add the following algebraic expressions:

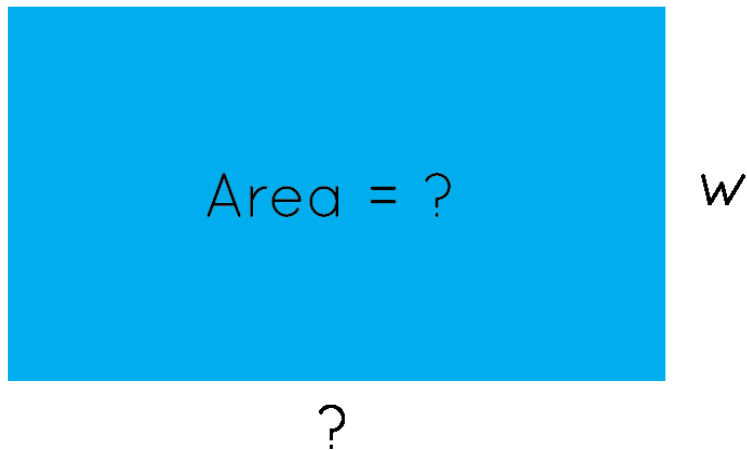
$12x - 10y + 5xy + 23$ ,  $17 + 5x - 10y - 8xy$ , and  $-8xy$

10) The length of a rectangle is 5 units more than half of its width. Then

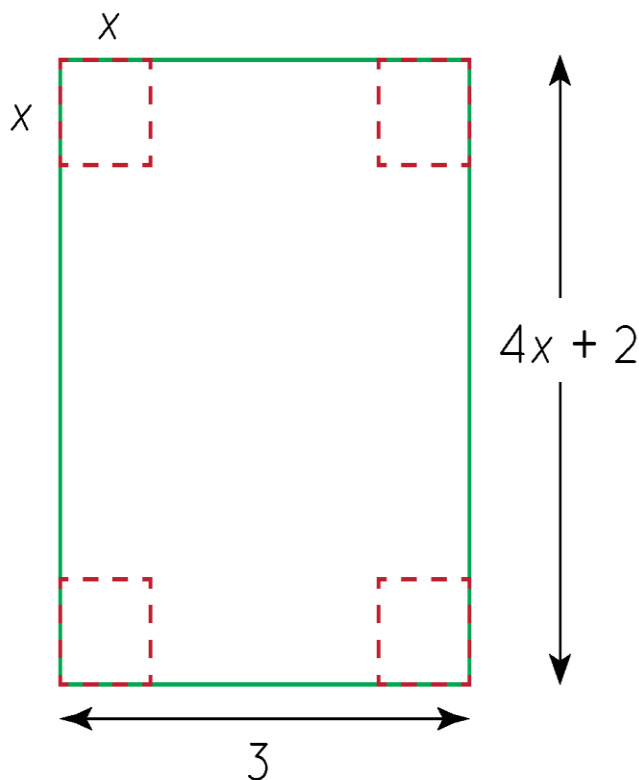
a) What is its length as an algebraic expression?

b) Find an expression for its area.

Assume its width to be  $w$ .



- 11) Jay cuts identical squares from the corners of a rectangular sheet of paper as shown below. Find the area of the resultant paper.



- 12) Factor out the coefficient of the variable term.

- a)  $\frac{5}{8}k + \frac{5}{4}$   
b)  $\frac{7}{2}m + 14$

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## ANSWERS

1)	Options b) and c)
2)	a) $xy - (x + y)$ b) $x + \frac{1}{y} + 5$ c) $m^2 - n^2$
3)	a) $x^3y^2; y^2$ b) No $x^3$ term c) $5x^3y; 5y$
4)	a) Trinomial b) Trinomial c) Binomial
5)	$5x - 2y - 7$
6)	$5x^2 + 2x + 2$
7)	a) $-8g - 4$ b) $2x - 7$
8)	$-\frac{39y}{2} + 31$
9)	$17x - 20y - 11xy + 40$
10)	$\frac{1}{2}w^2 + 5w$ square units
11)	$-4x^2 + 12x + 6$
12)	a) $\frac{5}{8}(k + 2)$ b) $\frac{7}{2}(m + 4)$



## FUN FACT

1. To find the sum/difference of two algebraic expressions, just combine the like terms.
2. To distribute a monomial, we use the distributive property.
3. The distributive property says  
$$a(b + c) = ab + ac$$

