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## EXPRESSIONS WORKSHEETS

- 1) State whether the following are True/False.
  - a)  $x = 2$  is an algebraic expression.
  - b)  $x = 2$  is an equation.
  - c)  $x - 2$  is an algebraic expression.
  - d)  $x - 2$  is an equation.
- 2) Mia is thinking how to convert the following phrases into algebraic expressions. Can we help her?



- a) The sum of  $x$  and 2.
  - b) One-fourth of the sum of  $x$  and  $y$ .
  - c) Number 4 is added to the product of  $m$  and  $n$ .
  - d) The sum of the squares of the numbers  $x$  and  $y$ .
- 3) The number of terms in the expression  $3xyz - 2yz - \frac{3}{4}$  is  
-----.
- 4) Classify the following as monomials, binomials, and trinomials.
  - a)  $2x - yz$
  - b)  $(pqr)^2 - \frac{1}{2}r + 3$

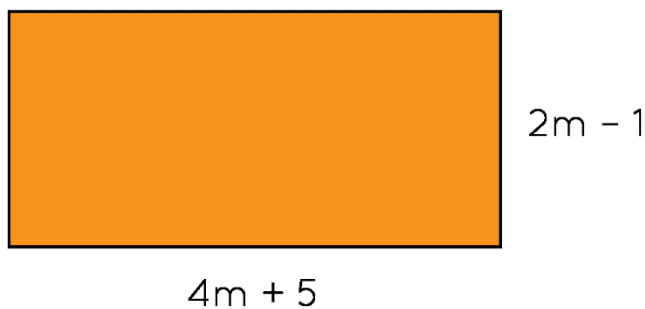
c)  $\frac{3xy}{4}$

5) Find the sum.

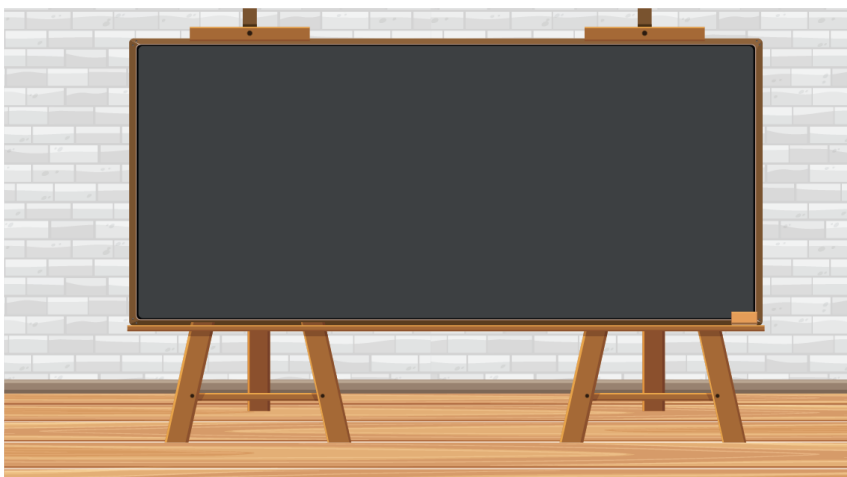
a)  $(3.2 - x) + (-10x + 2.5)$

b)  $\left(\frac{1}{3}m - 5\right) + \left(\frac{1}{2}m + 7\right)$

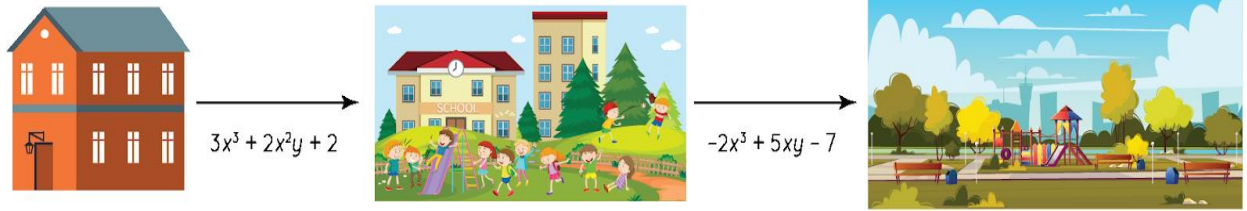
6) Find the algebraic expression that corresponds to the perimeter of the following rectangle.



7) The area of a rectangle is represented by an algebraic expression  $3x^3 - 5x + 7$  square units. Calculate its area when  $x = 3$ .



8) The distance from Emma's house to her school is  $(3x^3 + 2x^2y + 2)$  units and the distance from her school to park is  $(-2x^3 + 5xy - 7)$ . Then find the distance from her house to the park.



9) Subtract  $5 - 4x + x^2$  from the sum of  $2x^2 - 5x$  and  $7x^2 - 2$ .

10) What should be subtracted from  $3a - 5b + 10$  in order to get  $-7a + 2b - 5$ ?

11) Evaluate the following algebraic expressions at the given values:

a)  $\sqrt{x} + 3$ , when  $x = 16$

b)  $\frac{8}{15}x + \frac{1}{5}$ , when  $x = 3$

12) Factor out the coefficient of the variable:

a)  $\frac{17}{4} + \frac{5}{8}x$

b)  $0.8k + 3.2$

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- Barbara Cabrera

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## ANSWERS

1)	a) False; b) True c) True; d) False
2)	a) $x + 2$ b) $\frac{1}{4}(x + y)$ c) $mn + 4$ d) $x^2 + y^2$
3)	3
4)	a) Binomial b) Trinomial c) Monomial
5)	a) $5.7 - 11x$ b) $\frac{5}{6}m + 2$
6)	$12m + 8$
7)	73 square units
8)	$x^3 + 2x^2y + 5xy - 5$
9)	$8x^2 - x - 7$
10)	$10a - 7b + 15$
11)	a) 7 b) $\frac{9}{5}$
12)	a) $\frac{5}{8}\left(\frac{34}{5} + x\right)$ b) $0.8(k + 4)$

## FUN FACT

1. An algebraic expression may contain a single term or the sum of two or more terms.
2. There is no “=” symbol in an algebraic expression.  
For example,  $2x + 3$  is an algebraic expression.
3. If an algebraic expression is set equal to something, then it is called an equation.  
For example,  $2x + 3 = 4$  is an equation.

