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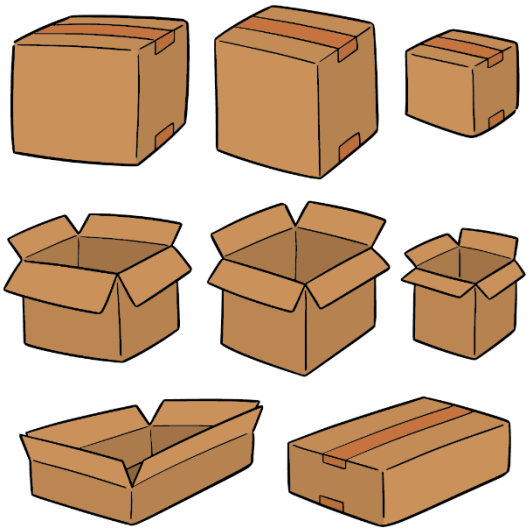
EXPRESSIONS WORKSHEETS

1) Identify the algebraic expression among the following.
   a) $2x + 3 = 0$
   b) $2x - 3$
   c) $\frac{1}{2}x = 3$
   d) $2x = y$

2) Classify the following algebraic expressions into monomials, binomials, and trinomials.
   a) $3x^2yz$
   b) $x + y - z$
   c) $x^2 - y^2$

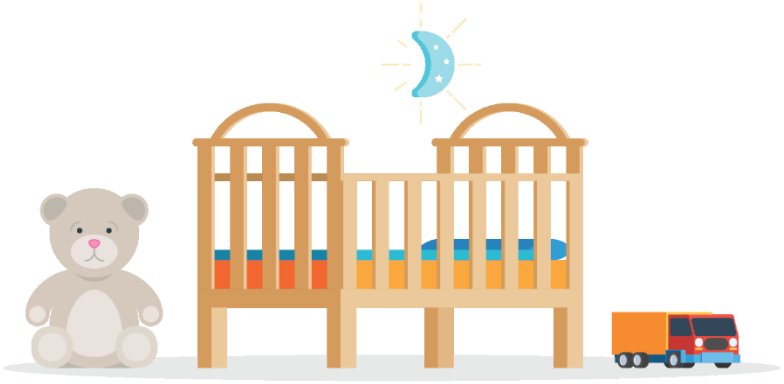
3) Benjamin had some boxes of apples, each with 8 apples. If he gave away 10 apples to his friend then write an algebraic expression for the number of apples he currently have with him. Assume the number of boxes to be x.



4) Classify the following as monomials, binomials, and trinomials.
   a) $x + 3y - z$
   b) $x^2y + 3x - 2$

c) $\frac{x}{2} - 6$

5) The length of a cot is 2.5 ft more than twice its width. Find its perimeter in terms of its width. Assume that the width of the cot is w ft.



6) Simplify the following algebraic expressions by combining the like terms.

a) $\frac{2}{8}k - 8 + 9 - \frac{9}{16}k$

b) 5.3r – 5 – 2.5r

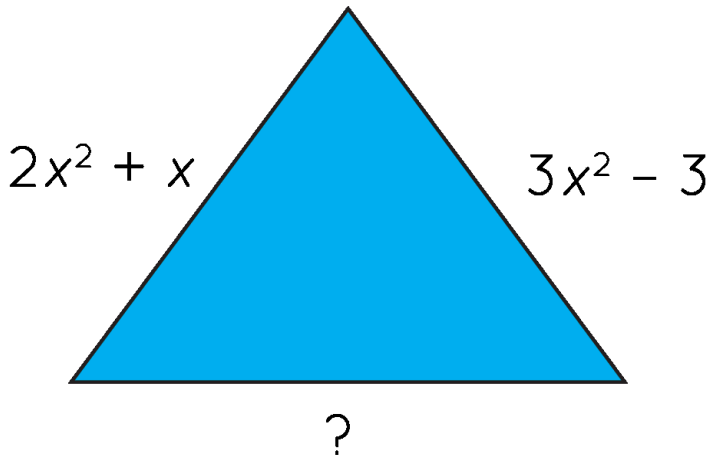
7) Jonathan had \$ $4x^2 - 7x + 8$ in his bank account. Now he deposited \$ $-3x^2 + 7x + 13$. What is his net balance?

8) Find the difference:

a) $(-2d - 5) - (3d - 7)$

b) $\left(\frac{3}{4}x - 2\right) - \left(-\frac{1}{4}x - 12\right)$

9) The perimeter of a triangle is $3x^2 + 2$ units and its two sides are given in the following figure. Find its third side.



10) Simplify the following using distributive property.

a) $4(x - 8)$

b) $-\frac{3}{7}(21q - 14)$

11) Using distributive property, $-\frac{2}{5}(10x-15) =$ _____.

12) Factor the coefficient of the variable.

a) $-\frac{1}{2}x+8$

b) $-\frac{1}{8}x-\frac{3}{2}y$

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ANSWERS

1)	Option b)
2)	a) Monomial b) Trinomial c) Binomial
3)	8x – 10
4)	a) trinomial b) trinomial c) binomial
5)	(6w + 5) ft
6)	a) $-\frac{5}{16}k+1$ b) 2.8r – 5
7)	x^2+21
8)	a) -5d + 2 b) x + 10
9)	$-2x^2-x+5$
10)	a) 4x – 32 b)-9q + 6
11)	-4x + 6
12)	a) $-\frac{1}{2}(x-16)$ b) $-\frac{1}{8}(x+12)$

FUN FACT

Here are the differences between an expression and an equation.

1. An expression doesn't have "=" symbol in it whereas an equation has it.
2. An expression cannot be solved for a particular variable, but an equation can be.
3. An expression can be evaluated at specific values of variables, but an equation cannot be.