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EXPRESSIONS WORKSHEETS

- 1) Identify the algebraic expressions among the following:
 - a) $2x + y$
 - b) 3
 - c) $x = 2$
 - d) $2x - 5$

- 2) Convert the following phrases into expressions:
 - a) One-fourth of the sum of x and 2 times y
 - b) The number m multiplied by itself.
 - c) Product of the numbers x and y is subtracted from 10.

- 3) Simplify the following algebraic expressions by combining like terms.
 - a) $3x + 5x - 7x$
 - b) $\frac{1}{2}x - 7 - 3x$

- 4) Mia's piggy bank has only dimes and quarters. Write an expression for the amount of money (in dollars) in her piggy bank if x is the number of dimes and y is the number of quarters.



5) Simplify the following expressions:

a) $3.5x - 2 + 5.2x - 3$

b) $\frac{1}{3}x - 4 + \frac{1}{6}x + \frac{1}{8} - x^3$

6) Find the sum:

a) $(3x + 8) + (-2x - 7)$

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

7) Find the sum:

a) $(2x - 6) + (4x - 12)$

b) $\left(-\frac{5}{2}x + 4\right) + \left(\frac{1}{5}x + 17\right)$

8) Find the difference:

a) $(-5t + 3) - (7 - 2t)$

b) $\left(-\frac{1}{7}j + 15\right) - \left(\frac{3}{7} - 2j\right)$

9) Joy is $(4x + 5)$ years old. Her brother Michael is $(3x - 2)$ years younger than her sister. Then write an expression that represents Michael's age.



- 10) The width of a rectangular table top is 4 units less than thrice its length. Then what is its perimeter as an algebraic expression? Assume its length to be x .



- 11) What should be added to $3x^2 + xy + y^2$ to get $3x^2 - 3y^2$?
- 12) A square shaped door mat has a perimeter of $8x - 12$ units. Find an expression for the length of the mat.



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**ANSWERS**

1)	Options a), b), and d)
2)	a) $\frac{1}{4}(x + 2y)$ b) m^2 c) $10 - xy$
3)	a) x b) $\frac{-5}{2}x - 7$
4)	$0.10x + 0.25y$
5)	a) $8.7x - 5$ b) $-x^3 + \frac{1}{2}x - \frac{31}{8}$
6)	a) $x + 1$ b) $\frac{11}{5}x - 19$
7)	a) $6x - 18$ b) $-\frac{23x}{10} + 21$
8)	a) $-3t - 4$ b) $\frac{13}{7}j + \frac{102}{7}$
9)	$(x + 7)$ years
10)	$(8x - 8)$ units

11)	$-4y^2 - xy$
12)	$(2x - 3)$ units



FUN FACT

1. An algebraic expression does not contain an “=” symbol.
2. To evaluate an algebraic expression at given values of variables, simply substitute them in the expression and simplify it.
3. To add/ subtract two or more algebraic expressions, simply combine the like terms.

