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6th Grade Algebra Worksheets

Questions

1. Evaluate the following: $x + 9$ where $x = 15$ and choose the correct option for x from below:
 - a. 22
 - b. 23
 - c. 21
 - d. 24
2. Identify the coefficients and constants in the following expressions: $3 + 7x$
3. Solve the following equations for a : $a + 3 = 7$
4. Write and evaluate an expression for the problem.
The scores on Pete's first two math tests are 75 and 99. By how many points did Pete improve on his second test?
5. Determine the first expression to evaluate in: $4 \times 6 \div 3 - 6^2$
6. The distance between New York and Philadelphia is 50 miles less than 2 times the distance between New York and New Jersey. If m is the distance between New York and New Jersey, which expression can be used to denote distance between New York and New Jersey?
 - a. $50 - 2m$
 - b. $2m - 50$
 - c. $50m - 2$
 - d. $2 - 50m$

7. Your friend eats 25 strawberries less than 5 times the amount of strawberries you do. If you eat 10 strawberries, find out how much your friend eats?

You



Friend



10

8. Write the following statements as equations/inequalities : 14 is 5 more than 3 times x

9. Find the cost of the objects

 : \$5000 +
  : \$y = \$7500 y =

10. Use the Distributive Property to simplify each expression:

$$\frac{2}{3}(5 + 3x - 11)$$

11. Write and simplify an expression that represents the total cost (in dollars) of buying the items shown for each member of a varsity team?(1 T-shirt and a pair of socks per member)

T-shirts

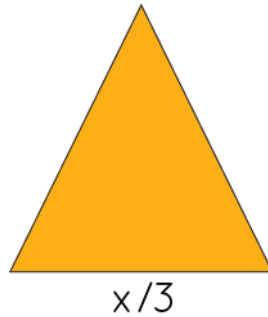
Socks



\$25

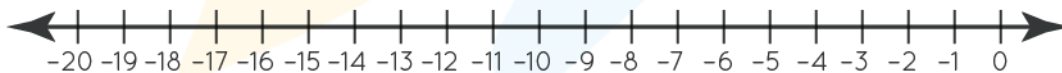
\$x/single
socks

12. ABC is an equilateral triangle with each side measuring 15.
Find the value of x .



13. Bob is x years old. His brother, Matt, is 4 years older than Bob. Their aunt, Lana, is 5 years less than twice Matt's age. Write and simplify an expression that represents Lana's age in years.
14. Find an expression for the perimeter of a table of length $4x$ and breadth $3x - 6$.
15. Solve the following and graph the solution:

$$x + 9 > -5 \text{ and } x + 9 < 4$$



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- Barbara Cabrera

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ANSWERS

1) 3	2) Coefficients - 4, Constants - 3	3) 4
4) 13	5) $5x^3$	6) $3m - 100$
7) Friend - 250 You - 100	8) $50 = 10x$	9) 30
10) $0.5c - 1$	11) $2x + 10$	12) $a = 44$
13) $3x + 6$	14) $12x + 22$	15) $x > 9, x < -6$

FUN FACT

1. . Algebra was developed by the Greeks and Babylonian mathematicians.
2. Algebra is a Latin word derived from the Arabic word 'Al-Jabr'.
3. The first book on algebra was written in the 9th century by Muhammad ibn Mūsā al-Khwārizmī.

