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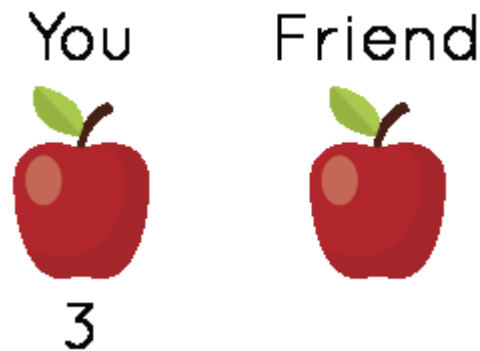
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## 6th Grade Algebra Worksheets



### Questions

1. Evaluate the following:  $\frac{x+9}{2}$  where  $x = 15$  and choose the correct option for  $x$  from below:
  - a. 12
  - b. 13
  - c. 11
  - d. 14
2. Identify the coefficients and constants in the following expressions:  $5c^2 + 9$
3. Solve the following equations for  $a$ :  $a \times 8 = 32$
4. Write and evaluate an expression for the problem.  
The scores on Dave's first two biology tests are 65 and 81. By how many points did Dave's improve on his second test?
5. Determine the first expression to evaluate in:  $5 \times 3 \div (2 + 4)^2$
6. The distance between Chicago and New York is 100 miles less than 3 times the distance between New York and Miami. If  $m$  is the distance between New York and Miami, which expression can be used to denote distance between Chicago and New York?
  - a.  $100 - 2m$
  - b.  $3m - 100$
  - c.  $100m - 3$
  - d.  $2 - 100m$

7. Your friend eats 5 apples less than 3 times the amount of apples you do. If you eat 3 apples, find out how much your friend eats?



8. Write the following statements as equations/inequalities :  $x$  is less than the square of 5 more than twice  $c$
9. Find the cost of the objects

 : \$10 +  : \$ $x$  + 5 = \$25     $x = \underline{\quad ? \quad}$

10. Use the Distributive Property to simplify each expression:  
 $2(x + 9)$
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



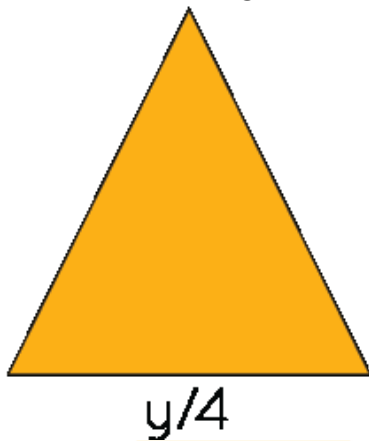
\$24

Socks



\$4x/single  
socks

12. ABC is an equilateral triangle with each side measuring 14.  
Find the value of  $y$ .



13. Sean is  $x$  years old. His sister, Carol, is 4 years older than Sean. Their Dad, John, is 6 years less than thrice Carol's age. Write and simplify an expression that represents John's age in years.
14. Find an expression for the perimeter of a garden of length  $7x$  and breadth  $3x + 5$ .
15. Solve the following and graph the solution:  
 $x + 2 > 7$  and  $x + 11 < 4$

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- Gary Schwartz

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**ANSWERS**

1) $d - 2$	2) Coefficients - 5, Constants - 13	3) 8
4) 24	5) $4 \times 6 \div 3$	6) $250 - 2m$
7) Friend - 5 You - 2	8) $z > 5 + 2c$	9) $x = \$14$
10) $7x + 14$	11) $6x + 7$	12) $a = 55$
13) $2x + 25$	14) $16x + 14$	15) $x > 6$ . $x < -12$

## 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.

