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## 6th Grade Algebra Worksheets



### Questions

1. Evaluate the following:  $\frac{a}{b}$  where  $a = 21$ ,  $b = 7$
2. Identify the coefficients and constants in the following expression:  $4a + 3$
3. Solve the following equations for  $x$ :  $x - 4 + 2x = 8$
4. Write and evaluate an expression for the problem.  
The scores on Ben's first two history tests are 82 and 95. By how many points did Ben improve on his second test?
5. Determine the first expression to evaluate in each problem:  
 $8 + (5 \times 3) - 4$
6. The distance between California and Mexico border is 100 miles less than thrice the distance between California and Washington. If  $m$  is the distance between California and Washington, which expression can be used to denote distance between California and Mexico?
  - a.  $100 - 2m$
  - b.  $3m - 100$
  - c.  $100m - 3$
  - d.  $3 - 100m$

7. Your friend eats 50 fries less than 3 times the amount of french fries you do. If you eat a 100 fries, find out how much your friend eats?



8. Write the following statements as equations/inequalities: 50 is equal to 10 times  $x$
9. Find the cost of the objects

: \$5 + :  $a = \$35$      $a = \underline{\quad ? \quad}$

10. Use the Distributive Property to simplify each expression:  
 $0.5(c - 2)$
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

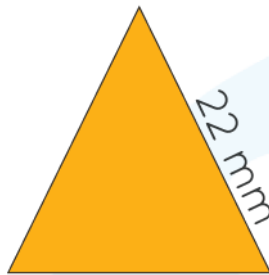


\$10

Socks

\$x/single  
socks

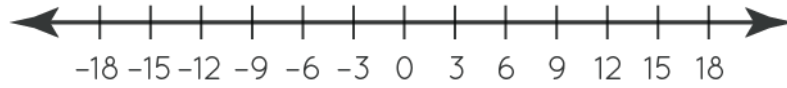
12. ABC is an equilateral triangle with each side measuring 22. Find the value of a



13. José is  $x$  years old. His brother, Mario, is 2 years older than José. Their aunt, Betta, is three times as old as Mario. Write and simplify an expression that represents Betta's age in years.
14. Find an expression for perimeter of the given rectangle



15. Solve the following and graph the solution -  
 $x + 4 > 13$  and  $x + 9 < 3$



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- Gary Schwartz

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- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- 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.

