

# Chapter 2 Test, Form 3

SCORE \_\_\_\_\_

1. Translate the following into an equation.

*A number  $x$  is decreased by 45. The result is then divided by 12. Then 20 is added to this new result to give a final result of five times the difference of 32 and the number  $x$ .*

2. Translate the following equation into a verbal sentence.

$$5(2x + 3y) = y^2 - 2x^2$$

For Questions 3-7, solve each equation.

3.  $n + 39 = 12$

4.  $w + (-8) = -21$

5.  $-6m = 16$

6.  $\frac{3}{4}h = -\frac{45}{8}$

7.  $-\frac{a}{6} + 7 = -14$

8. If  $x - 5 = 12$ , what is the value of  $x - 9$ ?

For Questions 9 and 10, write an equation for each problem. Then solve the equation.

9. Three-fifths of what number equals one?

10. The product of 2 more than a number and 10 is 36 more than 8 times the number. What is the number?

11. Evaluate  $2|m - 3x| - p$  if  $m = -1$ ,  $x = 2$ , and  $p = 4$ .

12. Solve  $2\left|\frac{x}{2} + 3\right| = 1$ . Then graph the solution set.

13. Shyam invested money in the stock market. In the first year, his stock increased 20%. He paid his stock broker \$300 and then lost \$450. He withdrew \$500, and then his remaining investment doubled. Shyam's investment is now worth \$7100. How much was Shyam's original investment?

14. Use cross products to determine whether the pair of ratios  $\frac{42}{48}$  and  $\frac{63}{72}$  form a proportion. Write *yes* or *no*.

15. A blueprint for a house states that 2 inches represents 8 feet. If the width of a window is 2.5 inches on the blueprint, what is the width of the actual window?

1.  $\frac{x - 45}{12} + 20 = 5(32 - x)$

Five times the sum of two times  $x$  and three times  $y$  equals the square of  $y$  minus two times the cube of  $x$ .

2. \_\_\_\_\_

3.     -27    

4.     -13    

5.     -2  $\frac{2}{3}$     

6.     -1  $\frac{2}{13}$     

7.     126    

8.     8    

9.  $\frac{5}{3}x = 1; \frac{3}{5}$

10.  $(x + 2)10 = 8x + 36; 8$

11.     10    

12.     {-7, -5}    



13.     \$4000    

14.     yes    

15.     10 ft

# Chapter 6 Mid Test Algebra 2

**James Hasik, Stacey Rudnick**



## Chapter 6 Mid Test Algebra 2:

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