

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.

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

For Questions 3–7, solve each equation.

3. $n + 39 = 12$

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

5. $-6m = 16$

6. $\frac{3}{4}h = -\frac{45}{82}$

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

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

11. 10

12. $\{-7, -5\}$



13. $\$4000$

14. *yes*

15. 10 ft

Mj Math2 Advanced Semester 2 Review Answers

JS Bruner



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