*10 questions
* Take your time – use the lessons and your notes if need them
* Check your answers by using the online quiz feature – input your selections for each question

Introduction to Algebra Concepts

1. True or False: equations always have a solution.

   a. True

   b. False

2. The sum of 30 and 25 is_____

   a. 5

   b. 27

   c. 55

   d. 89

3. The quotient of 60 and 4 is _____

   a. 15

   b. 64

   c. 56

   d. 1/15

4. The product of 7 and y is_____

   a. 7 + y

   b. 7y

   c. 7/y

   d. None of the above

5. What symbol is this? $>$

    a. Less than or equal to

    b. Greater than or equal to

    c. Less than

    d. Greater than

6. Is $x = 15$ the solution to the equation $3x + 10 = 54$?

    a. No

    b. Yes

    c. Sometimes

Order of Operations – simplify the expression and select the correct answer

7. $3 \times 9 - 2 \times 5 - 16 \div 2$

    a. 117

    b. 7

    c. 9

    d. 57

8. $20 \div [(8 - 3) \text{ x } (10 \div 5)]$

    a. 2

    b. 60

    c. 35

    d. 105

Translating Verbal and Algebraic Phrases

9.  Write as an algebraic statement "3 times a number plus 4"

    a.  3x4

    b.  $3x + 4$

    c.  $12 + x$

    d.  $12x$

10. Write as a verbal phrase   $6z(x - y)$

    a.  The difference of 6 z, x and y

    b.  z and x times 6 times y

    c.  the product of 6 z, x and y

    d.  The product of 6 times z and the difference of x and y