DUE MONDAY MARCH 6th! Name
© 2015 Kuta Software LLC. Allrights reserved.

Beat the Basics 8

Date_____ Algebra____

Evaluate each expression.

1)
$$5 - (10 - 4) \div 6$$

2)
$$2 \cdot 3 + 6 - 3$$

Evaluate each using the values given.

3)
$$6 - (x - y)$$
; use $x = 3$, and $y = 2$

4)
$$3(y+x)$$
; use $x = 3$, and $y = 1$

Write each as an algebraic expression.

5) 3 cubed

6) 9 increased by n

7) the difference of n and 4

8) the difference of 21 and 3

Evaluate each expression.

9)
$$-2 + -\frac{3}{4}$$

10)
$$-\frac{3}{4} + \frac{3}{8}$$

11)
$$-\frac{3}{7} + -\frac{5}{4}$$

12)
$$\frac{1}{2} + \frac{8}{5}$$

13)
$$-\frac{1}{3} \cdot \frac{4}{5}$$

14)
$$-\frac{2}{3} \cdot \frac{3}{2}$$

15)
$$\frac{-9}{8} \div \frac{-3}{4}$$

16)
$$-2 \div \frac{3}{2}$$

Solve each equation.

17)
$$6 + \frac{x}{2} = -1$$

18)
$$-1 = \frac{2+r}{14}$$

19)
$$4v + 8 = 28$$

20)
$$-2b - 3b = -10$$

21)
$$-17 + 6x = 7(4x + 7)$$

22)
$$-\frac{5}{3}x - \frac{5}{2} = -\frac{5}{18}$$

Round each to the place indicated.

Solve each of the following word problems by any method. Show all of your work. Answer each question in a full sentence.

- 25) The currency in Tonga is the Pa'anga. The exchange rate is approximately 14 Pa'anga for \$7. At this rate, how many dollars would you get if you exchanged 28 Pa'anga?
- 26) A triangle is 1 in tall and 2 in wide. If it is enlarged to a height of 7 in, then how wide will it be?

- 27) Shanice won 96 pieces of gum playing hoops at her school's game night. Later, she gave three to each of her friends. She only has 6 remaining. How many friends does she have?
- 28) Danielle spent half of her weekly allowance on candy. To earn more money her parents let her wash the car for \$9. What is her weekly allowance if she ended with \$14?

For number 29: Plot each point and label it with the correct letter.

For number 30: State the coordinates of each point and lable with the correct letter.

29)
$$U(-3,5)$$
 $T(0,-5)$ $S(3,-3)$ $R(-3,-4)$ $Q(3,-5)$





