10.1 and 10.2 Practice

1. Tickets to a water park cost $53 per person. Write an expression to show the total cost of tickets for a group of people.

$$53x$$

2. Genise has some savings. After babysitting, she adds $75 to her savings. How much money has Genise saved?

$$y + 75$$

3. At 9pm in Pheonix, AZ the temperature has dropped 4 degrees since 6pm. Write an expression for the temperature at 9pm.

$$t - 4$$

4. Eli is driving at a speed of 55 miles per hour. Let *h* represent the number of hours Eli drives at this speed. Write an expression to represent the number of miles Eli travels during these *h* hours. Then evaluate for *h*=3.

$$55h$$

5. The number of shoes in a closet is *b*. How many pairs of shoes are in the closet? What if there are 62 shoes in the closet?

$$b \div 2$$

6. Will's volunteer hours in April were equal to his March volunteer hours plus half an hour. Write an expression to represent Will's number of volunteer hours in April. Then evaluate the expression if Will volunteered for 31 hours in March.

$$m + .5$$

Write a two word phrase for each. (**Meaning two *words*)**

7. $m + 83$ variable plus 83; 83 more than *m*

8. $45 - n$ 45 less than *n*

9. $5 * t$ 5 groups of *t*

10. Write an expression with 3 terms that has at least on variable, one constant, and one coefficient.

11. Stan wants to add trim all around the edge of a rectangular tablecloth that measures 5 feet long by 7 feet wide. The perimeter of the tablecloth is twice the length added to twice the width. How much trim does Stan need to buy? Write an expression and evaluate.

$$2 * 5 + 2 * 7 \; OR \; 2(5 + 7) = 24 \; feet$$

12. At a Ridgely Middle soccer game, nonstudent tickets are $6 and parking is $5. If Bella's parents and grandmother all came in the same car, how much did they spend to get into the game? Write an expression and evaluate.

$$3 * 6 + 1 * 5 = \$23$$

13. Write an expression for the product of three and *v*.

$$3 * v; 3(v); 3v$$

14. Write an expression for the product of 8 and *y*, plus 6.

$$8 * y + 6$$

15. Write an expression for the quotient of 48 and *x*.

$$48 \div x$$

16. a. Write an expression for the quotient of 48 and *x* when *x* is equivalent to the product of 8 and *y*.

$$48 \div (8 * y)$$

b. Evaluate your expression for *y*=1.

$$48 \div (8 * 1) = 48 \div 8 = 6$$