

**Word Problems:** February 18, 2014

**Math Objective:** I can use a variable that represents an unknown number and find the value of the variable in an equation or expression.

**Language Objective:** I will work with my partner to analyze, discuss, plan, and solve an equation or simplify an expression.

1. Liz baked 12 brownies. She wants to take a total of 32 brownies to a party. Write an equation that can be used to determine  $x$ , the number of brownies Liz still needs to bake.



2. Deb works for \$6 per hour. She earned \$185 last week. Write an equation that represents the number of hours,  $h$ , Deb babysat last week.



3. There were  $x$  students who went on a field trip to SnowBasin. The cost per student was \$20. The total cost was \$1280. Write an equation to find how many students from Polk Elementary went on the field trip.



4. Sal and his brothers helped their dad build a sandbox. The length of the sandbox was 2 feet longer than the width. Write an equation that will help you find the area of the sandbox.



Please note: The formula for area of a rectangle is Area = Length times Width ( $A = L \times W$ ).

5. Jake's store sells bags of apples. The number of pounds of apples is shown in the table below. Write an equation that represents the relationship between the number of pounds and the bags.



Bags of Apples	
Number of bags " $b$ "	Number of pounds " $p$ "
2	6
3	9
4	12

6. At the end of the season, Sean found a really good deal on a new snowboard and boots if he buys them at the same time. He will get \$35 off the regular price on the snowboard and \$25 off the regular price on his boots. Write an expression to show his purchase.

