

Write an equation for the following situations.



8. Grandma gives Brooklyn a piggy bank with \$25 when she was born. Every year, on her birthday, Brooklyn puts a \$20 in her bank.
- What variables best represent what you need to know (not x and y)? _____
 - Define those variables. _____
 - Write an equation to tell how much money Brooklyn will have in any given year. _____
 - If Brooklyn never used or added more money to the piggy bank, how much money would Brooklyn have in bank on her 15th birthday? _____
9. Grandpa just celebrated a birthday at Kneaders and ordered a pumpkin pie for \$12. How old he is if 400 reduced by twice his age is 244? _____
10. On your trip to Hawaii you need to rent a convertible. There is a charge for each rented car of \$30 for insurance and the daily cost is \$90 every day.
- What variables represent what you need to know? _____
 - Define those variables: _____
 - Write an equation to show the total cost to rent the convertible. _____
 - If you rented the convertible for 3 days, how much would you need to pay? _____
 - If you were charged \$480, how many days did you rent the car? _____
11. You played a game of basketball with your friends. You scored a total of 53 points (no three points shots). A basket is good for 2 points and free throw 1 point.
- Define your variables _____
 - Write an equation. _____
 - If you make 23 baskets (2 points each), how many free throws did you make? _____
12. Alex, Bob and Charlie went to Smith's. Each bought a drink for d dollars and a pack of gum for \$2. All together they spent a total of \$24.
- Write an equation to represent the situation. _____
 - Solve for d to find the cost of each drink.
13. A 100-point test has " t " true and false questions worth 2 points apiece and " m " multiple choice questions worth 4 points apiece.
- What do the variables stand for: t =_____, m =_____
 - Write an equation that describes all possible numbers of questions on the test. _____
 - If you have 24 multiple choice questions, how many true and false questions will there be? _____
14. On Saturday, I went to McDonalds with my friends and spent \$24. It took us 15 minutes to ride our bikes there. We bought three drinks and six burgers.
- Write an equation _____
 - Solve your equation for the cost of each burger.
 - If each drink cost \$1, how much was each burger? _____

