

Name: Class:

Write variable expressions word problems

- Mary has 30 candies. she gives away t candies. Write an expression for the number of candies Mary has left.
- Rita's new phone has x hours of battery life. Her old Phone has 3 hours battery life less than that of the new phone. Choose the expression that shows the battery life of Rita's old phone.
 $3 - x$ $3 + x$ $x + 3$ $x - 3$
- Yesterday, Tracy bought 16 cupcakes. She divided it equally amongst her x girlfriends. Write an expression for the number of cakes each girlfriend got.
- In Olivia's marble collection, there are w jars of marbles. Each jar has 51 red marbles. Write an expression for the total number of red marbles in w jars of marbles.
- If Emma has n dollars and her brother, Leo has 520 more dollars than her, write an algebraic expression that represent how many dollars Leo has.
- I have been saving money for a very long time to get myself a very expensive suite for my date. If I already saved x dollars and spent \$169 on a school project, write an expression that represents how much money I have left.
- During a school reunion, there were a total of w people. If there was a total of 729 presents to be shared equally amongst everyone at the reunion, write an expression to represent the number of presents each person got.

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1. Mary has 30 candies. she gives away t candies. Write an expression for the number of candies Mary has left.

Total number of candies = 30.

Number of candies given away = t .

To find the number of candies left, subtract t from 30
 $= 30 - t$.

Therefore, Mary has $30 - t$ candies left.

2. $3 - x$ $3 + x$ $x + 3$ $x - 3$

3. Therefore, each girlfriend got $16/x$ cupcakes.

4. Therefore, there are $51w$ red marbles in w jars of marbles.

5. So, Leo has $\$520 + n$ dollars.

6. So, I have $x - \$169$ left.

7. So, each person got $729/w$ presents.