Name: .... Class: ....

Write variable expressions: word problems

a. Mary has 30 candies. She gives away **t** candies. Write an expression for the number of candies Mary has left.

b. 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

c. Yesterday, Tracy bought 16 cupcakes. She divided it equally amongst her **x** girlfriends. Write an expression for the number of cakes each girlfriend got.

d. 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.

mathskills4kids

Name: .... Class: ....

Write variable expressions: word problems

a. 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.

b. 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

c. Yesterday, Tracy bought 16 cupcakes. She divided it equally amongst her **x** girlfriends. Write an expression for the number of cakes each girlfriend got.

Total number of cupcakes = 16

Number of girlfriends = **x**

To find the number of cupcakes each friend got, divide 16 by **x**

= 16/x

Therefore, each girlfriend got **16/x** cupcakes.

d. 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.

Total number of jars = w

Number of red marbles in each jar = 51

To find the total number of red marbles in **w** jars, multiply 51 by w

= 51w

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