You can set up proportions to solve word problems as well.

Example:

1) Jazmine won a pie-eating contest, eating 6 pies in 10 minutes. At that rate, how many pies can she eat in two hours?

   There are 120 minutes in two hours. So, $\frac{6}{10} = \frac{p}{120}$. Since 10 times 12 equals 120, 6 times 12 is 72. She would eat 72 pies in two hours.

You Try:

1) Matthew hiked 10 miles in 4 hours. At that rate, how far can he hike in 18 hours? **45 miles**

2) A recipe calls for 2.5 cups of sugar to make 12 cookies. How much sugar is needed to make 36 cookies? **7.5 cups**

3) If 16 necklaces can be bought for $40, how much will 12 necklaces cost? **$30**

4) Sebastian can correctly solve 120 multiplication problems in 2 minutes. At this rate, how long would it take him to solve 300 problems? **5 minutes**

5) Alexandra types at a speed of 45 words per minute. How many words can she type in 10 minutes? **450 words**

6) Daisy needs 1.5 cups of sugar to make 12 cupcakes. How much sugar does she need to make 48 cupcakes? **6 cups**