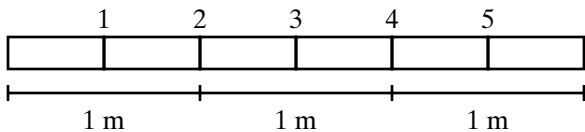


Reteaching 3-8 Simplify a Problem

You have 12 meters of ribbon to cut into half-meter pieces. How many cuts do you need to make?

Simplify the problem. Suppose you only had 3 meters of ribbon. Use a diagram.



Although you will get 6 pieces of ribbon ($2 \cdot 3$), you need to make only 5 cuts.

With 12 meters of ribbon, you would get 24 pieces with 23 cuts.

Solve by simplifying the problem.

1. A plumber charges \$25 to weld two pipes together. Pipe comes in 4-foot pieces and you need one piece 60 feet long. How much will it cost to have enough 4-foot pieces welded together? Fill in the table first.

Length of Pipe	Number of Welds
8	1
12	2
16	
20	
60	

2. How many digits are used to number the pages of a 425-page book? Fill in the table first.

Page Number	Number of Pages	Digits
1-9		
10-99		
100-425		

Total digits: _____

3. You are serving fruit in small bowls at a luncheon. You decide to place one slice of melon and a spoonful of one type of berry in each bowl. You have three types of melon and four types of berries available. How many different combinations of melon and berries can you make?