Name _____   Date_____

Solving Percent Problems

1. Write one problem using a dollar amount of $420 and a percent of 40%. Provide the solution to your problem.

2. The sale price of an item is $160 after a 20% discount. What was the original price of the item?
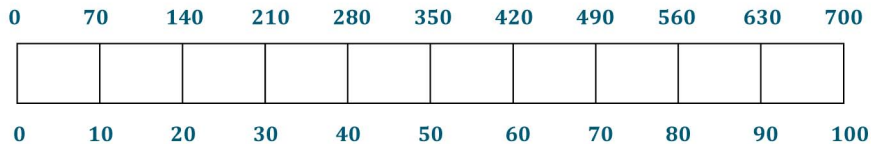
1. The Sparkling House Cleaning Company has cleaned 28 houses this week. If this number represents 40% of the total number of houses the company is contracted to clean, how many total houses will the company clean by the end of the week?

2. Joshua delivered 30 hives to the local fruit farm. If the farmer has paid to use 5% of the total number of Joshua's hives, how many hives does Joshua have in all?

1. Write one problem using a dollar amount of $420 and a percent of 40%. Provide the solution to your problem.

   Answers will vary.

   Problems that include $420 as the sale price should include $700 as the original. Because 40% is saved, 60% is paid of the original. Therefore, the original price is $700.

   Problems that include $420 as the original price and a 40% of discount should include $252 as a sale price. Below is an example of a tape diagram that could be included in the solution.

0	70	140	210	280	350	420	490	560	630	700
0	10	20	30	40	50	60	70	80	90	100

2. The sale price of an item is $160 after a 20% off discount. What was the original price of the item?

   Because the discount was 20%, the purchase price was 80% of the original.

   $$80\% = \frac{80}{100} = \frac{160}{200}$$

   The original price was $200.

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1. The Sparkling House Cleaning Company has cleaned 28 houses this week. If this number represents 40% of the total number of houses the company is contracted to clean, how many total houses will the company clean by the end of the week?

   70 *houses*

2. Joshua delivered 30 hives to the local fruit farm. If the farmer has paid to use 5% of the total number of Joshua's hives, how many hives does Joshua have in all?

   600 *hives*