Percent Word Problems Worksheet

1. Micah has 294 songs stored in his phone, which is 70% of the songs that Jorge has stored in his phone. How many songs are stored on Jorge's phone?

2. Lisa sold 81 magazine subscriptions, which is 27% of her class's fundraising goal. How many magazine subscriptions does her class hope to sell?

Percent Word Problems Worksheet

1. Micah has 294 songs stored in his phone, which is 70% of the songs that Jorge has stored in his phone. How many songs are stored on Jorge's phone?

   Quantity = Percent × Whole.

   Let s represent the number of songs on Jorge's phone.

   $$294 = \frac{70}{100} \cdot s$$
   $$294 = \frac{7}{10} \cdot s$$
   $$294 \cdot \frac{10}{7} = \frac{7}{10} \cdot \frac{10}{7} \cdot s$$
   $$42 \cdot 10 = 1 \cdot s$$

   $420 = s$ There are 420 songs stored on Jorge's phone.

2. Lisa sold 81 magazine subscriptions, which is 27% of her class's fundraising goal. How many magazine subscriptions does her class hope to sell?

   Quantity = Percent × Whole.

   Let s represent the number of magazine subscriptions Lisa's class wants to sell.

   $$81 = \frac{27}{100} \cdot s$$
   $$81 \cdot \frac{100}{27} = \frac{27}{100} \cdot \frac{100}{27} \cdot s$$
   $$3 \cdot 100 = 1 \cdot s$$
   $$300 = s$$

   Lisa's class hopes to sell 300 magazine subscriptions.

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