Learning Objectives:
1. Solve direct translation problems involving percent.
2. Model and solve direct translation problems from business that involve percent.

1. Solve direct translation problems involving percent

Key words: is means =
of means ×
what means n (variable)

Example 1. Find the unknown in each percent question.

1. What is 67% of 140?  2. 35% of what number is 70?

3. 15 is 6% of what number?  4. What percent of 50 is 36?
2. **Model and solve direct translation problems from business that involve percent**

**Formula:**
1. Tax amount = list price \times tax rate
2. Total cost = list price + tax amount

**Example 2. Buying a DVD Player**
Thomas just purchased a DVD player with a list price of $230. If the sales tax rate is 7%, what is his total cost after taxes?

**Example 3. Buying a Sofa**
The purchase price of the Rob’s new sofa is $1033.90. If the sales tax rate is 5.5%, what was the list price of the sofa?

**Example 4. Buying a Condo**
A condominium went on the market of $343,200. The advertisement says that the price has just been 20% for a quick sale. What was the price of this condo before the price reduction?