

2-7 Percent of Change

Percent of Change When an increase or decrease in an amount is expressed as a percent, the percent is called the **percent of change**. If the new number is greater than the original number, the percent of change is a **percent of increase**. If the new number is less than the original number, the percent of change is the **percent of decrease**.

Example 1: Find the percent of increase.

original: 30

new: 66

Step 1: find the amount of change

Step 2: find the percent of increase by dividing
amount of change by original number.

Example 2: Find the percent of decrease.

new: 22 original: 48

step 1:

step 2:

Exercises

State whether each percent of change is a percent of *increase* or a percent of *decrease*. Then find each percent of change. Round to the nearest whole percent.

1. original: 50
new: 80

2. original: 90
new: 100

3. original: 45
new: 20

4. **VIDEOS** The original selling price of a new sports video was \$65.00. Due to the demand the price was increased to \$87.75. What was the percent of increase over the original price?

5. **SCHOOL** A high school paper increased its sales by 75% when it ran an issue featuring a contest to win a class party. Before the contest issue, 10% of the school's 800 students bought the paper. How many students bought the contest issue?

6. **BASEBALL** Baseball tickets cost \$15 for general admission or \$20 for box seats. The sales tax on each ticket is 8%. What is the final cost of each type of ticket,