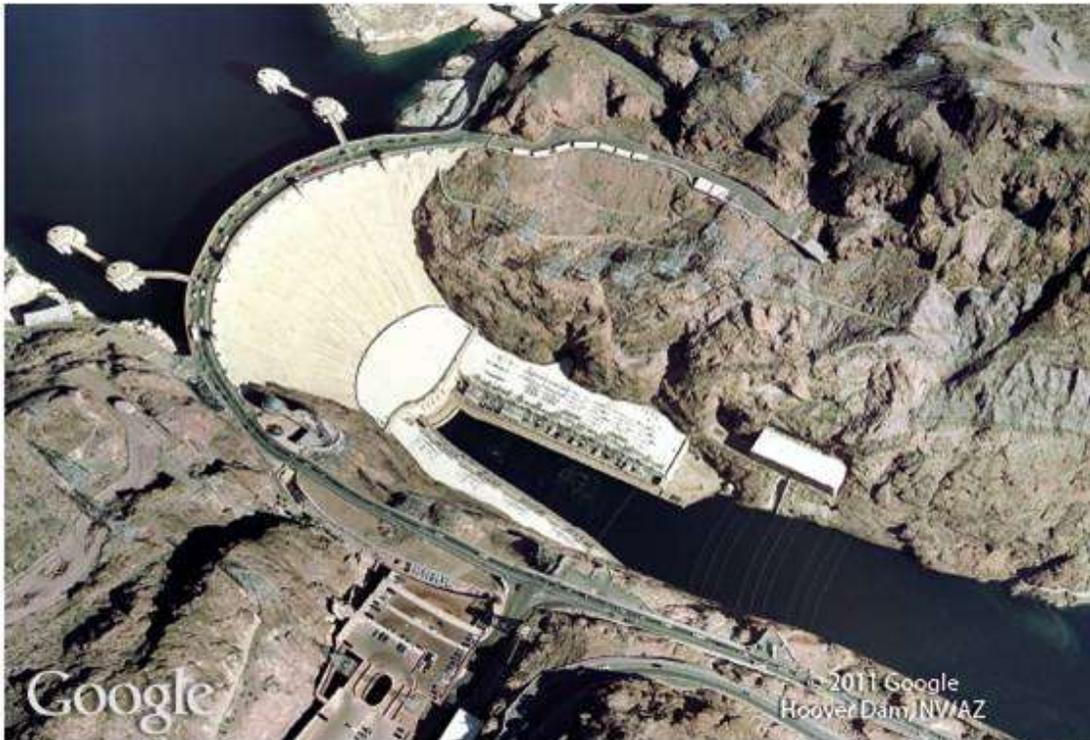


Percent

7



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SECTION 7.3

General Applications of Percent

Objective

- A** Solve application problems involving percent.



A Applications Involving Percent

Example 1

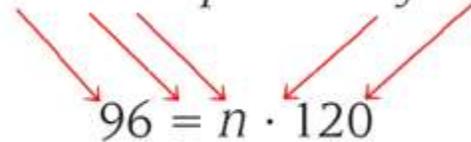
On a 120-question test, a student answered 96 correctly. What percent of the problems did the student work correctly?

Solution:

We have 96 correct answers out of a possible 120.

The problem can be restated as

96 is what percent of 120


$$96 = n \cdot 120$$

$$\frac{96}{120} = \frac{n \cdot 120}{120}$$

Divide both sides by 120.

Example 1 – *Solution*

cont'd

$$n = \frac{96}{120}$$

Switch the left and right sides of the equation.

$$n = 0.80$$

Divide 96 by 120.

$$= 80\%$$

Rewrite as a percent.

When we write a test score as a percent, we are comparing the original score to an equivalent score on a 100-question test.

That is, 96 correct out of 120 is the same as 80 correct out of 100.