

LESSON 6 Proportional Relationships
6 Reading Strategies: Multiple Meanings

A person can go by different names. Timothy could also be called Tim or Timmy.

A number can have different names too. The columns below show different names for 0.4. → Read: "four tenths."

Decimal Form	Fraction Form	Percent Form
0.4 →	$\frac{4}{10}$ →	40%

To find the percent form of a fraction or decimal number, write an equivalent fraction with a denominator of 100.

$$\frac{4}{10} = \frac{40}{100}$$

A fraction with a denominator of 100 can be written as a percent. → $\frac{4}{10}$ → 40%

Use 0.37 to complete Exercises 1–3.

1. Write the words for 0.37.
2. Write 0.37 as a fraction.
3. Write 0.37 as a percent.

Use $\frac{60}{100}$ to complete Exercises 4–7.

4. How would you read $\frac{60}{100}$?
5. Write $\frac{60}{100}$ as a decimal.
6. Write $\frac{60}{100}$ as a percent.

LESSON

6

Proportional Relationships**Problem Solving: Percents, Decimals, and Fractions**

Write the correct answer.

1. Deserts cover about $\frac{1}{7}$ of all the land on Earth. About what percent of Earth's land is made up of deserts?
2. The Sahara is the largest desert in the world. It covers about 3% of the total area of Africa. What decimal expresses this percent?
3. Cactus plants survive in deserts by storing water in their thick stems. In fact, water makes up $\frac{3}{4}$ of the saguaro cactus's total weight. What percent of its weight is water?
4. Daytime temperatures in the Sahara can reach 130°F! At night, however, the temperature can drop by 62%. What decimal expresses this percent?

Circle the letter of the correct answer.

5. The desert nation of Saudi Arabia is the world's largest oil producer. About $\frac{1}{4}$ of all the oil imported to the United States is shipped from Saudi Arabia. What percent of our nation's oil is that?
A 20%
B 22%
C 25%
D 40%
6. About $\frac{2}{5}$ of all the food produced on Earth is grown on irrigated cropland. What percent of the world's food production relies on irrigation? What is the percent written as a decimal?
F 40%; 40.0
G 40%; 4.0
H 40%; 0.4
J 40%; 0.04
7. About $\frac{3}{25}$ of all the freshwater in the United States is used for drinking, washing, and other domestic purposes. What percent of our fresh water resources is that?
A 3%
B 25%
C 12%
D $\frac{1}{5}$
8. Factories and other industrial users account for about $\frac{23}{50}$ of the total water usage in the United States. Which of the following show that amount as a percent and decimal?
F 46% and 0.46
G 23% and 0.23
H 50% and 0.5
J 46% and 4.6