LESSON **Proportional Relationships**

6 **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

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