

## LESSON

**Practice B****6-2***Fractions, Decimals, and Percents*

Write each decimal as a fraction in simplest form and as a percent.

1. 0.17

\_\_\_\_\_

2. 0.56

\_\_\_\_\_

3. 0.04

\_\_\_\_\_

4. 0.7

\_\_\_\_\_

5. 0.02

\_\_\_\_\_

6. 0.80

\_\_\_\_\_

7. 0.3

\_\_\_\_\_

8. 0.07

\_\_\_\_\_

Write each fraction as a decimal then as a percent.

9.  $\frac{13}{40}$

\_\_\_\_\_

10.  $\frac{3}{5}$

\_\_\_\_\_

11.  $\frac{3}{20}$

\_\_\_\_\_

12.  $\frac{5}{12}$

\_\_\_\_\_

13.  $\frac{5}{16}$

\_\_\_\_\_

14.  $\frac{3}{80}$

\_\_\_\_\_

15.  $\frac{5}{6}$

\_\_\_\_\_

16.  $\frac{19}{25}$

\_\_\_\_\_

Order the numbers from least to greatest.

17. 0.3,  $\frac{19}{40}$ , 22%

\_\_\_\_\_

18. 11%,  $\frac{1}{11}$ ,  $\frac{2}{19}$

\_\_\_\_\_

19.  $\frac{5}{8}$ , 0.675, 5.8%

\_\_\_\_\_

20. -0.35, 0.051, -21%

\_\_\_\_\_

21.  $\frac{1}{9}$ , 0.351, 27%

\_\_\_\_\_

22. 0.08,  $-\frac{4}{5}$ , 0.8

\_\_\_\_\_

Decide whether pencil and paper, mental math, or a calculator is most useful when solving the following problem. Then solve.

23. The police use a speed gun to monitor one part of a highway. During one hour, 6 out of 25 cars were traveling above the speed limit. What percent of the cars were traveling above the speed limit?

\_\_\_\_\_

\_\_\_\_\_

**LESSON**

**Problem Solving**

**6-2**

**Fractions, Decimals, and Percents**

**Write the correct answer.**

1. About 543 out of every 1,000 people in the United States owned a cell phone in 2003. In Japan, the rate was 68 for every 100 people. How much greater was the percent of cell phone ownership in Japan than in the U.S.?

3. When asked about their favorite Thanksgiving leftover,  $\frac{1}{20}$  of the people said vegetables and  $\frac{7}{100}$  said mashed potatoes. Which food was more popular and by what percent?

2. In 2002, the adult population of the United States was about 206 million. About 113 million people participated in an exercise program. To the nearest percent, what percent of the adult population participated in an exercise program?

4. In a survey, 80 people were asked whether they thought the speed limit for interstate highways should be raised. Twenty-five people said the speed limit should be raised. What percent of people did not think that the speed limit should be raised?

**Choose the letter for the best answer.**

The table shows the number of students in four schools who own computers.

5. What percent of students at Percy owns computers?

- A 125%                      C 250%
- B 12.5%                     D 25%

6. In which school does about 73% of the students own computers?

- F Hunter                     H Percy
- G Madison                   J King

7. What percent of students at Madison do not own computers? Round to the nearest tenth of a percent.

- A 3.3%                      C 33.3%
- B 9.9%                      D 66.7%

**Students Who Own Computers**

School	Number of Students
Madison	90 out of 270
Hunter	56 out of 100
King	110 out of 150
Percy	125 out of 500

8. Which school has the greatest percent of students who own computers?

- F Hunter                     H Percy
- G Madison                   J King