

**SECTION**

**6A**

**Ready to Go On? Skills Intervention**

**6-3 Estimating with Percents**

You can estimate the percent of a number using fractions or using simple percents.

- Use fractions when the percent can be rounded to a common equivalent fraction.

$$10\% = \frac{1}{10}, 20\% = \frac{1}{5}, 25\% = \frac{1}{4}, 33\frac{1}{3}\% = \frac{1}{3}, 50\% = \frac{1}{2}$$

- Use simple percents when you can use a multiple of 1% or 10% to help you estimate.

**Using Fractions to Estimate Percents**

Use a fraction to estimate 27% of 57.

$$27\% \text{ of } 57 \approx \frac{\quad}{\quad} \text{ of } 57$$

$$\approx \frac{1}{4} \cdot \underline{\quad}$$

$$\approx \underline{\quad}$$

27% is about 25%. What fraction is the same as 25%?

What number should you round 57 to?

Multiply.

27% of 57 is about \_\_\_\_.

**Estimating with Simple Percents**

Use a multiple of 10% to estimate 28% of 80.

28% is about 30%, so find 30% of 80.

$$10\% \text{ of } 80 = \underline{\quad} \cdot 80 = \underline{\quad} \quad \text{What number do you multiply by 80?}$$

$$30\% \text{ of } 80 = \underline{\quad} \cdot 8.0 = 24.0 \quad \text{What do you multiply 8.0 by to represent 30%?}$$

28% of 80 is about \_\_\_\_.

**Consumer Application**

Sara has \$10.00 to buy 2 pillows and a blanket. Before tax, the bedding totals \$6.25. Will Sara have enough money once the 8.75% sales tax is added?

$$8.75\% \text{ of } 6.25 \approx \frac{\quad}{\quad} \text{ of } 6.25$$

$$\approx \frac{1}{10} \cdot \underline{\quad}$$

$$\approx \underline{\quad}$$

8.75% is about 10%. What fraction is the same as 10%?

Round 6.25 to a compatible number.

Multiply.

Does Sara have enough money? \_\_\_\_\_

**SECTION**  
**6A**

**Ready to Go On? Problem Solving Intervention**

**6-3 Estimating with Percents**

Of the 917 students in the Valley School, 52% ride the bus to school. At the Meadow School, 73% of the 596 students ride the bus to school. Which school has more bus riders?

**Understand the Problem**

1. Can you be sure Meadow School has more riders just because  $73\% > 52\%$ ? Explain.

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2. How would you calculate the number of bus riders at each school?

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**Make a Plan**

3. Why might it be useful to try estimating first?

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**Solve**

4. Fill in the blanks by rounding to the nearest hundred.

Riders at Valley: \_\_\_\_\_% of 917 = about 50% of \_\_\_\_\_

Riders at Meadow: \_\_\_\_\_% of 596 = about 75% of \_\_\_\_\_

5. Fill in the blanks to estimate the number of riders at each school.

Valley is about 50% of 900 =  $\frac{1}{2}$  of 900 = \_\_\_\_\_.

Meadow is about 75% of \_\_\_\_\_ = \_\_\_\_\_ of \_\_\_\_\_ = \_\_\_\_\_.

6. Which school has less than 450 bus riders and which has more? Explain how you can tell without calculating exact totals.

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**Check**

7. Look back at the problem. Answer the question being asked.

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