



Name \_\_\_\_\_ Date \_\_\_\_\_

## Percent and Estimation (Pages 126–129)

**Compatible numbers** are two numbers that are easy to divide mentally.

<b>Estimating with Compatible Numbers</b>	To estimate a percent using compatible numbers: <ul style="list-style-type: none"> <li>• Round to numbers that are easy to divide.</li> <li>• Use those numbers to make an estimate.</li> </ul>
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### EXAMPLES

**A** Estimate 18% of 50.

*Think: 18% is close to 20% and 20% is  $\frac{1}{5}$ .*

$\frac{1}{5}$  of 50 is 10.

18% of 50 is about 10.

**B** Estimate what percent 13 out of 63 represents.

*13 out of 63 is close to 13 out of 65, or  $\frac{13}{65}$ .*

*Since  $\frac{13}{65} = \frac{1}{5}$  or 20%, 13 out of 63 is about 20%.*

### Try These Together

1. Estimate 26% of 80.

*HINT: 26% is close to 25%, which equals  $\frac{1}{4}$ .*

2. Estimate the percent represented by 11 out of 24.

*HINT:  $\frac{11}{24}$  is close to  $\frac{12}{24}$  which equals  $\frac{1}{2}$ .*

### PRACTICE

#### Estimate.

3. 18% of 50

4. 73% of 48

5. 38% of 31

6. 89% of 10

7. 9% of 81

8. 48% of 52

#### Estimate the percent.

9. 3 out of 23

10. 15 out of 35

11. 10 out of 31

12. 11 out of 56

13. 9 out of 16

14. 32 out of 41

15. Estimate what percent 13 out of 27 represents.

16. **Money Matters** Gareth's restaurant bill was \$29.65. Estimate how much a 20% tip would be.



17. **Standardized Test Practice** 78% of the students at Willow Middle School ride the bus home. If there are 201 students, estimate how many of them ride the bus home.

**A** 180

**B** 160

**C** 120

**D** 80

Answers: 1–16. Sample answers are given. 1. 20 2. 50% 3. 10 4. 36 5. 12 6. 9 7. 8 8. 25 9. 12.5% 10. 40% 11. 33.3% 12. 20% 13. 50% 14. 80% 15. 50% 16. \$6.00 17. B