



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

# Zeros in the Quotient (pages 161–163)

When you divide by decimals, you may have to write zeros in the quotient.

## EXAMPLES

**Find each quotient.**

**A**  $8.04 \div 0.402$

$$\begin{array}{r} 0.402 \overline{)8.04} \\ \underline{804} \\ 00 \end{array}$$

*In this case, you must write a zero to fill in the ones place.*

**B** Find  $33.08 \div 16.2$  to the nearest hundredth.

$$\begin{array}{r} 2.041 \\ 16.2 \overline{)33.08} \\ \underline{324} \\ 68 \\ \underline{680} \\ 680 \\ \underline{648} \\ 320 \\ \underline{320} \\ 0 \end{array}$$

*Divide to the thousandths place to round to the nearest hundredth. Since 68 is less than the divisor, write a zero in the quotient. To the nearest hundredth, the quotient is 2.04.*

### Try These Together

**Find each quotient.**

1.  $3.468 \div 3.4$

*HINT: Don't forget to fill in spaces in the quotient with zeros.*

2.  $16.646 \div 4.1$

*HINT: Don't forget to fill in spaces in the quotient with zeros.*

## PRACTICE

**Find each quotient to the nearest hundredth.**

3.  $6.7 \overline{)943.427}$

4.  $26 \overline{)41.79}$

5.  $0.98 \overline{)59.681}$

6.  $0.44 \overline{)0.472}$

7.  $72 \overline{)870}$

8.  $5.12 \overline{)5.28}$

9.  $1.76 \div 28$

10.  $63.66 \div 7.23$

11.  $486.7 \div 8.39$

12.  $9.4 \div 0.31$

13.  $21.191 \div 17.6$

14.  $50.41 \div 47.6$

**Solve each equation.**

15.  $m = 305.61 \div 6.1$

16.  $j = 77.14 \div 0.38$

17.  $6.8034 \div 6.67 = x$

18.  $704.34 \div 7.8 = z$

19.  $c = 14.5808 \div 2.08$

20.  $17.017 \div 13 = f$

**21. Money Matters** Mr. Kwon's long distance bill was \$9.36 last month. If he pays \$0.09 per minute, how many minutes of long distance calls did he make last month?



**22. Standardized Test Practice** Find  $10.51 \div 9.9$  to the nearest hundredth.

**A** 1.01

**B** 1.06

**C** 1.10

**D** 1.60

**Answers:** 1. 1.02 2. 4.06 3. 140.81 4. 1.61 5. 60.90 6. 1.07 7. 12.08 8. 1.03 9. 0.06 10. 8.80 11. 58.01 12. 30.32 13. 1.20 14. 1.06 15. 50.1 16. 203 17. 1.02 18. 90.3 19. 7.01 20. 1.309 21. 104 minutes 22. B