

## 4-5

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

# Dividing Decimals by Whole Numbers

(pages 152–155)

When you divide a decimal by a whole number, place the decimal point in the quotient directly above the decimal point in the dividend. Then, divide as you do with whole numbers.

## EXAMPLES

**Find each quotient.**

**A**  $14.8 \div 2$

$$\begin{array}{r} 7.4 \\ 2 \overline{)14.8} \\ \underline{-14} \phantom{0} \\ 8 \\ \underline{-8} \\ 0 \end{array}$$

First estimate:  $14 \div 2 = 7$ .  
Place the decimal point.

Divide as with whole numbers.

**B**  $27.3 \div 3$

$$\begin{array}{r} 9.1 \\ 3 \overline{)27.3} \\ \underline{-27} \phantom{0} \\ 3 \\ \underline{-3} \\ 0 \end{array}$$

First estimate:  $27 \div 3 = 9$ .  
Place the decimal point.

Divide as with whole numbers.

## Try These Together

**Find each quotient.**

1.  $25.4 \div 2$

*HINT: Use the dividend as a guide to placing the decimal in the quotient.*

2.  $6.16 \div 4$

*HINT: Use the dividend as a guide to placing the decimal in the quotient.*

## PRACTICE

**Find each quotient.**

3.  $7 \overline{)29.4}$

4.  $12 \overline{)915.96}$

5.  $31 \overline{)570.4}$

6.  $155.1 \div 66$

7.  $152.83 \div 17$

8.  $68.46 \div 42$

**Round each quotient to the nearest tenth.**

9.  $81.81 \div 27$

10.  $41.79 \div 86$

11.  $698.44 \div 21$

12.  $73.67 \div 69$

13.  $58.42 \div 16$

14.  $247.73 \div 44$

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

15.  $104.745 \div 34$

16.  $623.86 \div 65$

17.  $5.237 \div 91$

**Solve each equation.**

18.  $a = 24.15 \div 7$

19.  $1.507 \div 11 = b$

20.  $c = 144.96 \div 48$

21. **Money Matters** Mika borrowed \$18.30 from his parents to buy a book. How much should Mika give his parents each week if he plans to make equal payments for six weeks?



22. **Standardized Test Practice** Round  $126.33 \div 16$  to the nearest hundredth.

**A** 7.8

**B** 7.89

**C** 7.90

**D** 7.93

**Answers:** 1. 12.7 2. 1.54 3. 4.2 4. 76.33 5. 18.4 6. 2.35 7. 8.99 8. 1.63 9. 3.0 10. 0.5 11. 38.3 12. 1.1 13. 3.7 14. 5.6 15. 3.08 16. 9.60 17. 0.06 18. 3.45 19. 0.137 20. 3.02 21. \$3.05 22. C