

# Multiplying Decimals

 (pages 56–59)

Multiplying decimals is much like multiplying whole numbers. Use the following rule to find the number of decimal places in the product.

<b>Multiplying Decimals</b>	The number of decimal places in the product of two decimals is the sum of the number of decimal places in the factors.
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## EXAMPLES

### Multiply.

**A**  $2.7 \times 0.5$

$$\begin{array}{r} 2.7 \leftarrow \text{one decimal place} \\ \times 0.5 \leftarrow \text{one decimal place} \\ \hline 1.35 \leftarrow \text{two decimal places} \end{array}$$

**B**  $0.312 \times 4.1$

$$\begin{array}{r} 0.312 \leftarrow \text{three decimal places} \\ \times 4.1 \leftarrow \text{one decimal place} \\ \hline 1.2792 \leftarrow \text{four decimal places} \end{array}$$

### Try These Together

#### Multiply.

1.  $0.26 \times 3.4$

*HINT: Count the decimal places in the factors.*

2.  $1.7 \times 0.062$

*HINT: Count the decimal places in the factors.*

## PRACTICE

### Place the decimal point in each product.

3.  $0.2 \times 0.8 = 16$     4.  $0.9 \times 0.6 = 54$     5.  $2.2 \times 0.5 = 11$     6.  $3.6 \times 0.6 = 216$

7.  $1.5 \times 0.3 = 45$     8.  $2.4 \times 0.4 = 96$     9.  $0.6 \times 0.3 = 18$     10.  $6.8 \times 0.5 = 34$

### Multiply.

11.  $\begin{array}{r} 0.8 \\ \times 0.6 \\ \hline \end{array}$

12.  $\begin{array}{r} 1.3 \\ \times 0.2 \\ \hline \end{array}$

13.  $\begin{array}{r} 4.5 \\ \times 0.3 \\ \hline \end{array}$

14.  $\begin{array}{r} 0.12 \\ \times 0.3 \\ \hline \end{array}$

15.  $2.5 \times 1.5$

16.  $0.55 \times 0.02$

17.  $0.8 \times 1.1$

18.  $2.3 \times 1.6$

19. **Transportation** High-speed passenger trains between Osaka and Tokyo, Japan, travel at speeds of 217 kilometers per hour. Another high-speed passenger train between Paris, France, and Geneva, Switzerland, travels 1.2 times as fast as the ones in Japan. To the nearest kilometer per hour, how fast does the high-speed train between Paris and Geneva travel?



20. **Standardized Test Practice** Dugan rode in a bicycle ride for charity. He rode 75.5 miles each day for three days. How many miles did he ride total?

**A** 226.5 miles

**B** 22.65 miles

**C** 2,260.5 miles

**D** 2.265 miles

Answers: 1. 0.884 2. 0.1054 3. 0.16 4. 0.54 5. 1.1 6. 2.16 7. 0.45 8. 0.96 9. 0.18 10. 3.4 11. 0.48 12. 0.26  
13. 1.35 14. 0.036 15. 3.75 16. 0.011 17. 0.88 18. 3.68 19. 260 kilometers per hour 20. A