

EXERCISES

 For more practice, see *Extra Practice*.

A Practice by Example

Find each product. Exercises 1 and 9 have been started for you.

Example 1
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$$\begin{array}{r} 1. \quad 0.018 \\ \times \quad 4 \\ \hline 72 \end{array}$$

$$2. \quad \begin{array}{r} 1.9 \\ \times 9 \\ \hline \end{array}$$

$$3. \quad \begin{array}{r} 31 \\ \times 5.6 \\ \hline \end{array}$$

$$4. \quad \begin{array}{r} 39 \\ \times 0.06 \\ \hline \end{array}$$

$$5. \quad 358(0.7)$$

$$6. \quad 0.12(47)$$

$$7. \quad 53 \cdot 0.04$$

$$8. \quad 0.28 \cdot 92$$

Example 2
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$$9. \quad \begin{array}{r} 0.2 \\ \times 0.7 \\ \hline 14 \end{array}$$

$$10. \quad \begin{array}{r} 0.8 \\ \times 0.4 \\ \hline \end{array}$$

$$11. \quad \begin{array}{r} 0.3 \\ \times 0.5 \\ \hline \end{array}$$

$$12. \quad \begin{array}{r} 0.7 \\ \times 0.9 \\ \hline \end{array}$$

$$13. \quad 0.12(0.96)$$

$$14. \quad 0.06(0.18)$$

$$15. \quad 0.486 \cdot 0.9$$

$$16. \quad 0.03 \cdot 0.574$$

Example 3
(page 36)

$$17. \quad 4.5(230)$$

$$18. \quad 1.7 \times 3.702$$

$$19. \quad 3.2 \cdot 4.5$$

$$20. \quad 8.1 \cdot 1.3$$

$$21. \quad 3.3(420)$$

$$22. \quad 3.2 \cdot 15.5$$

$$23. \quad 4.25 \cdot 6.18$$

$$24. \quad 1.2 \times 2.065$$

25. One pound of tomatoes costs \$1.29. To the nearest cent, how much would 2.75 pounds of tomatoes cost?

Example 4
(page 37)

Use mental math to find each product.

$$26. \quad 5 \times 0.47 \times 2$$

$$27. \quad 0.7 \times 1 \times 4$$

$$28. \quad 25 \cdot 1.3 \cdot 40$$

$$29. \quad (20) \cdot (1.9)(5)$$

$$30. \quad 6.8 \cdot 25 \cdot 4$$

$$31. \quad 9.5 \cdot 1 \cdot 100$$

$$32. \quad 4 \times 0.2 \times 1,000$$

$$33. \quad (0.02) \cdot (33)(50)$$

$$34. \quad 5 \times 6.83 \times 0.2$$

 35. **Money** What is the value in dollars of 25 rolls of nickels if there are 40 nickels in each roll?

B Apply Your Skills

Find each product.

$$36. \quad \begin{array}{r} 522 \\ \times 0.5 \\ \hline \end{array}$$

$$37. \quad \begin{array}{r} 22.76 \\ \times 3 \\ \hline \end{array}$$

$$38. \quad \begin{array}{r} 0.15 \\ \times 0.31 \\ \hline \end{array}$$

$$39. \quad \begin{array}{r} 8.42 \\ \times 6.7 \\ \hline \end{array}$$

Choose a Method Find each product. Tell whether you would use mental math, paper and pencil, or a calculator.

$$40. \quad 16 \times 2.5$$

$$41. \quad 0.8 \cdot 0.008$$

$$42. \quad 60(0.5)$$

$$43. \quad 56.37 \cdot 5.29$$



Passenger cars:
22.0 miles per gallon



Sport utility
vehicles (SUV):
17.5 miles per gallon

44. **Nutrition** There is 0.2 gram of calcium in 1 serving of cheddar cheese. How much calcium is in 3.25 servings of cheddar cheese?
45. **Automobiles** The average fuel rates for 2000 are at the left. How much farther could a car travel on 13 gallons of gas than an SUV?
46. **Writing in Math** Explain how multiplying 0.3×0.4 is like multiplying 3×4 . How is it different?
47. **Astronomy** Mercury is about 36 million miles from the sun. Jupiter is about 13.43 times that distance. About how far is Jupiter from the sun?
48. Which product does *not* equal 49.12?
 A. 15.35×3.2 B. 12.8×3.8375 C. 16×3.07 D. 35.15×2.5

Error Analysis Estimate to tell if each calculator answer is correct. If incorrect, explain the error.

49. $0.937 \cdot 24.78$
232.1886
50. $4.52 \cdot 0.615$
2.7798
51. $43.45 \cdot 0.2162$
43.6662

C Challenge

Algebra Find the value that makes each statement true.

52. $\blacksquare \div 0.2 = 0.7$ 53. $\blacksquare \div 0.03 = 0.5$ 54. $\blacksquare \div 1.6 = 0.04$
55. **Stretch Your Thinking** Find the least whole number greater than 1,000 whose digits are all different. What is its units digit?



Test Prep

Reading Comprehension

Read the passage and answer the questions below.

Calories Burned

Activity	Calories/Minute/ Pound
Dancing	0.05
Jumping rope	0.07
Running	0.10
Playing softball	0.04

Calorie Counter

The energy in food and the energy your body uses are measured in Calories. Not all foods have the same number of Calories. Not all activities use the same number of Calories. Your weight is also a factor. The number of Calories you burn is equal to:

$$\text{Your weight} \times \text{Minutes of activity} \times \text{Calories burned per minute per pound}$$



Take It to the NET

Online lesson quiz at
www.PHSchool.com

Web Code: aaa-0107

- Jim weighs 100 pounds. He jumps rope for 15 minutes and runs for 20 minutes. How many Calories does he burn?
- Tara weighs 80 pounds and dances for 1 hour 50 minutes. How many Calories does she burn?
- A 150-lb man plays softball and runs for 30 minutes each. Which sport burns more Calories for him? How much more?

Mixed Review

Lesson 1-3

Use $<$, $=$, or $>$ to complete each statement.

59. $6.225 \blacksquare 6.25$

60. $0.156 \blacksquare 0.15$

61. $17.34 \blacksquare 17.051$