

# Multiplying Decimals

Grade 5 Math • Section 7.3

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 17

## Quick Review and Helpful Hints

**Steps:** (1) Multiply as if the numbers were whole numbers (ignore decimals). (2) Count the **total** decimal places in both factors. (3) Place the decimal point in the product that many places from the right.

**Lightbulb:**  $0.3 \times 0.4$ : multiply  $3 \times 4 = 12$ . Total decimal places = 2. Answer = 0.12.

**Info:** Estimate to check:  $2.5 \times 3.1 \approx 3 \times 3 = 9$ .

**Example:** Find  $3.4 \times 2.15$ .

Ignore decimals:  $34 \times 215 = 7,310$ . Count decimal places: 3.4 has 1, 2.15 has 2. Total = 3. Place the decimal:  $7.310 = 7.31$ .

**Lightbulb:** Answer: 7.31

## Practice Problems

Multiply.

- |                              |                              |                               |
|------------------------------|------------------------------|-------------------------------|
| 1. $0.6 \times 0.7 =$ _____  | 6. $5.6 \times 2.3 =$ _____  | 11. $0.35 \times 0.8 =$ _____ |
| 2. $3.2 \times 4 =$ _____    | 7. $0.12 \times 0.5 =$ _____ | 12. $9.4 \times 0.15 =$ _____ |
| 3. $1.5 \times 0.3 =$ _____  | 8. $4.25 \times 3 =$ _____   | 13. $3.14 \times 2 =$ _____   |
| 4. $2.4 \times 1.5 =$ _____  | 9. $7.1 \times 0.04 =$ _____ | 14. $0.25 \times 0.4 =$ _____ |
| 5. $0.08 \times 0.9 =$ _____ | 10. $6.5 \times 1.2 =$ _____ | 15. $8.3 \times 1.6 =$ _____  |

## Word Problems

16. Gasoline costs \$3.45 per gallon. How much does 8.5 gallons cost? \_\_\_\_\_
17. A rectangular garden is 4.5 meters long and 3.2 meters wide. What is the area? \_\_\_\_\_



## Answer Keys

- |          |                         |
|----------|-------------------------|
| 1. 0.42  | 10. 7.8                 |
| 2. 12.8  | 11. 0.28                |
| 3. 0.45  | 12. 1.41                |
| 4. 3.6   | 13. 6.28                |
| 5. 0.072 | 14. 0.1                 |
| 6. 12.88 | 15. 13.28               |
| 7. 0.06  | 16. \$29.33             |
| 8. 12.75 | 17. 14.4 m <sup>2</sup> |
| 9. 0.284 |                         |

### Step-by-Step Explanations

- Start with the main idea. For multiplying decimals, line up the decimal values and compute  $0.6 \times 0.7 = 0.42$ . Write the given information first, then choose the operation that matches the situation.
- Keep the work tidy. For multiplying decimals, line up the decimal values and compute  $3.2 \times 4 = 12.8$ . A quick estimate helps confirm that the final answer is reasonable.
- Look at what the numbers mean. For multiplying decimals, line up the decimal values and compute  $1.5 \times 0.3 = 0.45$ . The explanation should show both the computation and why that computation fits the problem.
- Use the setup first. For multiplying decimals, line up the decimal values and compute  $2.4 \times 1.5 = 3.6$ . Write the given information first, then choose the operation that matches the situation.
- Check the size of the answer. For multiplying decimals, line up the decimal values and compute  $0.08 \times 0.9 = 0.072$ . A quick estimate helps confirm that the final answer is reasonable.
- Match the operation to the words. For multiplying decimals, line up the decimal values and compute  $5.6 \times 2.3 = 12.88$ . The explanation should show both the computation and why that computation fits the problem.
- Write the important values first. For multiplying decimals, line up the decimal values and compute  $0.12 \times 0.5 = 0.06$ . Write the given information first, then choose the operation that matches the situation.
- Follow the pattern carefully. For multiplying decimals, line up the decimal values and compute  $4.25 \times 3 = 12.75$ . A quick estimate helps confirm that the final answer is reasonable.
- Start with the main idea. For multiplying decimals, line up the decimal values and compute  $7.1 \times 0.04 = 0.284$ . The explanation should show both the

computation and why that computation fits the problem.

- Keep the work tidy. For multiplying decimals, line up the decimal values and compute  $6.5 \times 1.2 = 7.8$ . Write the given information first, then choose the operation that matches the situation.
- Look at what the numbers mean. For multiplying decimals, line up the decimal values and compute  $0.35 \times 0.8 = 0.28$ . A quick estimate helps confirm that the final answer is reasonable.
- Use the setup first. For multiplying decimals, line up the decimal values and compute  $9.4 \times 0.15 = 1.41$ . The explanation should show both the computation and why that computation fits the problem.
- Check the size of the answer. For multiplying decimals, line up the decimal values and compute  $3.14 \times 2 = 6.28$ . Write the given information first, then choose the operation that matches the situation.
- Match the operation to the words. For multiplying decimals, line up the decimal values and compute  $0.25 \times 0.4 = 0.1$ . A quick estimate helps confirm that the final answer is reasonable.
- Write the important values first. For multiplying decimals, line up the decimal values and compute  $8.3 \times 1.6 = 13.28$ . The explanation should show both the computation and why that computation fits the problem.
- Follow the pattern carefully. For multiplying decimals, cost is price per gallon times gallons:  $3.45 \times 8.5 = 29.325$ , which rounds to \$29.33. Write the given information first, then choose the operation that matches the situation.
- Start with the main idea. For multiplying decimals, area is length times width:  $4.5 \times 3.2 = 14.4$ . A quick estimate helps confirm that the final answer is reasonable.



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