

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: 0.3×0.4 : 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 3.4×2.15 .

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

Step-by-Step Explanations

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.

10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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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- ✓ 5 complete practice tests with detailed explanations
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- ✓ Builds confidence and test-taking skills
- ✓ High-quality questions aligned with state standards

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- ✓ 6 complete practice tests with detailed explanations
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- ✓ Builds even more confidence and test-taking skills
- ✓ Same high-quality questions aligned with standards

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