

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 .

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 ² |
| 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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