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.

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

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: $7.310 = 7.31$.

Answer: 7.31

Practice Problems

Multiply.

1. $0.6 \times 0.7 =$ _____
2. $3.2 \times 4 =$ _____
3. $1.5 \times 0.3 =$ _____
4. $2.4 \times 1.5 =$ _____
5. $0.08 \times 0.9 =$ _____
6. $5.6 \times 2.3 =$ _____
7. $0.12 \times 0.5 =$ _____
8. $4.25 \times 3 =$ _____
9. $7.1 \times 0.04 =$ _____
10. $6.5 \times 1.2 =$ _____
11. $0.35 \times 0.8 =$ _____
12. $9.4 \times 0.15 =$ _____
13. $3.14 \times 2 =$ _____
14. $0.25 \times 0.4 =$ _____
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
2. 12.8
3. 0.45
4. 3.6
5. 0.072
6. 12.88
7. 0.06
8. 12.75
9. 0.284
10. 7.8
11. 0.28
12. 1.41
13. 6.28
14. 0.1
15. 13.28
16. $\$29.33$
17. $14.4\ \text{m}^2$

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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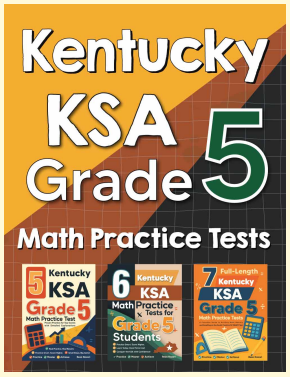

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