

Lesson 2-12

Reinforce Understanding

Multiply Decimals

I can multiply decimals and place the decimal point correctly in the product.

Worked model

I want 4.5×12.60 , the cost of 4.5 meters at \$12.60 each.

1. First I multiply without points, like whole numbers: $45 \times 1260 = 56,700$.
2. Now I count decimal places: 4.5 has 1, and 12.60 has 2, so $1 + 2 = 3$ decimal places.
3. I put the point 3 places from the right in 56,700: that gives 56.700, or \$56.70.
4. I check with an estimate: $5 \times \$13 = \65 , and \$56.70 is close, so my answer is reasonable.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Multiply as whole numbers, then place the decimal point.

Complete the table. Show how you found each value.

Problem	Whole Number Product	Total Decimal Places	Final Answer
2.5×4			
1.2×0.3			
6.1×0.5			

Show your work

2. What is 3.4×2.6 ?

Circle the letter of the best answer. Show how you know.

- A. 0.884
- B. 8.48
- C. 8.84
- D. 88.4

3. What is 0.7×1.5 ?

Circle the letter of the best answer. Show how you know.

- A. 0.105
- B. 1.05
- C. 1.50
- D. 10.5