

Lesson 2-12 • Group 2

Reinforce Understanding

2.12 Small Group • Group 2

I can multiply decimals and place the decimal point correctly in the product, explain why the method works, and use it on a problem I have not seen before.

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. Match each expression to its product.

Write the letter of the matching item on each line.

1. _____ 2.5×4
2. _____ 1.2×0.3
3. _____ 3.6×0.5
4. _____ 4.8×2.5
5. _____ 0.6×0.8
6. _____ 7.5×1.2

- A10
- B0.36
- C1.8
- D12
- E0.48
- F9

2. Complete each decimal multiplication.

Complete the table. Show how you found each value.

Problem	Product
6.4×3.5	
0.25×0.4	
8.3×2.1	
12.5×0.8	

Show your work