

Additional Practice 4-5

Use Models to Multiply a Decimal and a Decimal

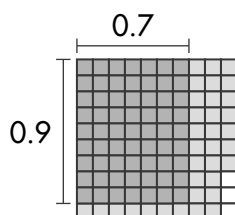
Another Look!

Find 0.7×0.9 . Use an area model to find the product.

Use each factor as a side of a rectangle on a hundredths grid.

The squares in the double shaded area represent the product.

The double shaded area contains 63 hundredths squares, so $0.7 \times 0.9 = 0.63$.

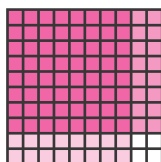


Both factors are less than 1, so their product is also less than 1.

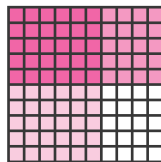


In 1–3, shade the hundredths grids to find the product.

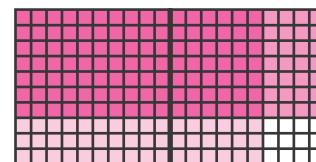
1. 0.8×0.8 **0.64**



2. 0.5×0.6 **0.3**



3. 0.7×1.6 **1.12**



In 4–15, find the product. You may use grids to help.

4. 1.9×0.4
0.76

5. 0.2×0.9
0.18

6. 2.8×0.6
1.68

7. 0.3×3.4
1.02

8. 5.6×0.8
4.48

9. 0.8×0.1
0.08

10. 0.9×4.1
3.69

11. 3.7×0.2
0.74

12. 4.4×0.7
3.08

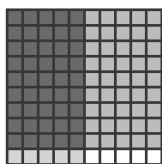
13. 0.9×0.5
0.45

14. 0.2×6.8
1.36

15. 9.1×0.3
2.73



16. Phil uses the model below to help him multiply decimals. Write a multiplication equation to represent the decimal model.



$$0.9 \times 0.5 = 0.45$$

17. **Number Sense** Write a problem that requires multiplying two decimals to find the answer. The product must have two decimal places.

Sample answer: A small square solar panel has side lengths equal to 0.7 meter. What is the area of the solar panel? $0.7 \times 0.7 = 0.49$ square meters

18. **Vocabulary** Describe the difference between an **underestimate** and an **overestimate**. **An underestimate is less than the actual answer. An overestimate is greater than the actual answer.**

19. Raul hit a golf ball 26.4 yards. A.J. can hit a golf ball 10 times as far. How far can A.J. hit the ball?

264 yards

20. **Be Precise** Marco wants to set up 12 small wind turbines with 3 blades each. If 4 wind turbine blades cost \$79.64, how much will all the blades cost? Show your work.

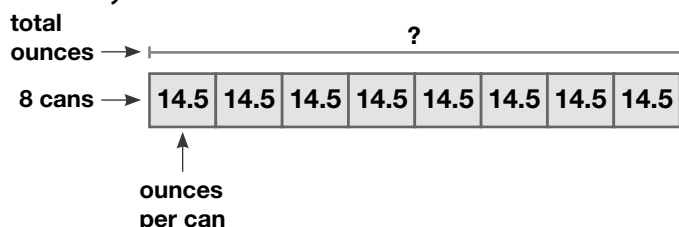
$$12 \times 3 = 36; 36 \div 4 = 9;$$

$$9 \times \$79.64 = \$716.76$$

21. **Higher Order Thinking** Explain why multiplying 37.4×0.1 gives a product that is less than 37.4.

Sample answer: Multiplying 37.4 by a number that is less than 1 would equal a number that is less than 37.4.

22. Leslie is buying cans of diced tomatoes that weigh 14.5 ounces each. If she buys 8 cans, how many total ounces does she buy? **116 ounces**



23. **Algebra** Jorge reads 15 pages each day for 7 days. Write and solve an algebraic equation to find p , the total number of pages he reads.

$$p = 15 \times 7; 105 \text{ pages}$$

Assessment Practice

24. Find two numbers that you can multiply to get a product of 0.4. Write the numbers in the box.

Product = 0.4						
0.5, 0.8						
0.9	0.5	8	0.1	0.8	9	5