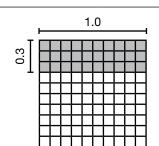
Models for Multiplying Decimals

Use the same strategy to multiply a decimal by a whole number or to multiply a decimal by a decimal.

Multiply 1.0×0.3

Use an area model and hundredths grid to find the product.

Each factor becomes a side length of a rectangle.



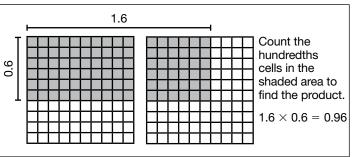
Count the hundredths cells in the shaded area to find the product.

 $1.0 \times 0.3 = 0.3$

Multiply 1.6×0.6

Use an area model and a hundredths grid to find the product. $\overset{\omega}{\circ}$

Because one factor is greater than 1, you will need to use 2 hundredths grids (for a total of 2 units).



Place the decimal point in each product.

1.
$$1.2 \times 3.6 = 432$$

1.
$$1.2 \times 3.6 = 432$$
 2. $5.5 \times 3.7 = 2035$

3.
$$4.4 \times 2.3 = 1012$$

Find the product.

8.
$$1.9 \times 0.4$$
 _____ **9.** 3.42×5

10. If you multiply two decimals less than 1, can you predict whether the product will be less than or greater than either of the factors? Explain.