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## 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 $1.0 \times 0.3$
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 $1.6 \times 0.6$
Use an area model and a hundredths grid to find the product. $\stackrel{\circ}{\circ}$ 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. $1.2 \times 3.6=432$
2. $5.5 \times 3.7=2035$
3. $4.4 \times 2.3=1012$

Find the product.
4. $7 \times 0.5$ $\qquad$ 5. $12 \times 0.08$
6. $24 \times 0.17$
7. $0.4 \times 0.7$
8. $1.9 \times 0.4$
9. $3.42 \times 5$
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.

