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.

Multiply 1.6 \times 0.6
Use an area model and a hundredths grid to find the product.
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
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.