• Decimal Multiplication •
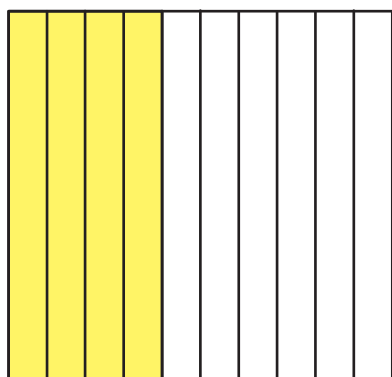
ANSWERS   ## Multiply Tenths with Models

We can use models to help us understand decimal multiplication. Study the example below, then try it out!
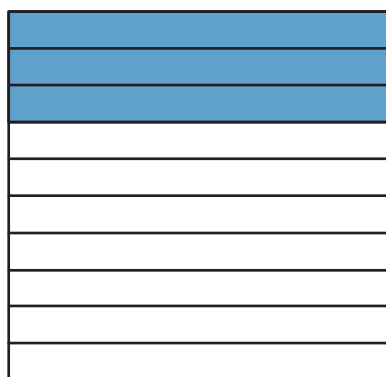
Tip: When two decimals in the tenths place are multiplied, the product (answer) will be in the hundredths place.

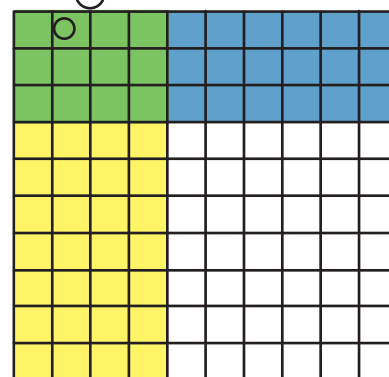*The part that overlaps shows the product.*

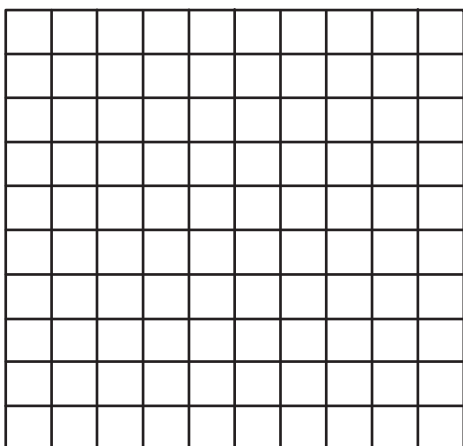|		
0.4 four tenths	x	**0.3** three tenths	=	**0.12** twelve hundredths

Try it! Use two colors to shade in the model.

0.2 x 0.4

1. Shade in 0.2 vertically (up and down). Remember, 0.2 is equal to 0.20, so you can shade in two whole columns.

2. Shade in 0.4 horizontally (side to side). Remember, 0.4 is equal to 0.40, so you can shade in four whole rows.

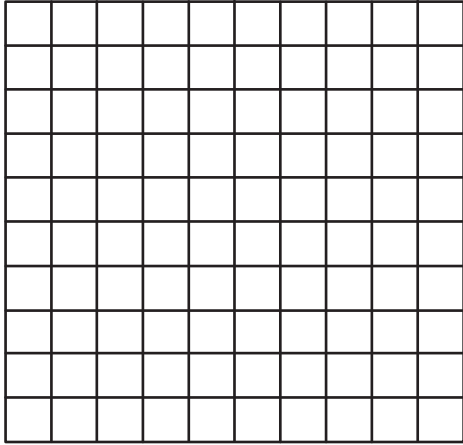3. Count the hundredths in the overlapping area (the part where you can see both colors). That is the product!

So, 0.2 x 0.4 = _____**.08**_____

Name _____   Date _____
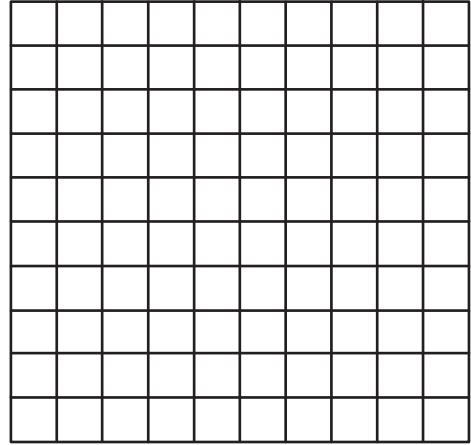
• Decimal Multiplication •
Multiply Tenths with Models

Practice it! Shade each model to solve the multiplication problems.

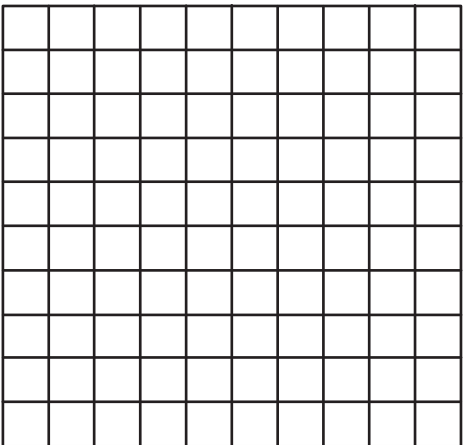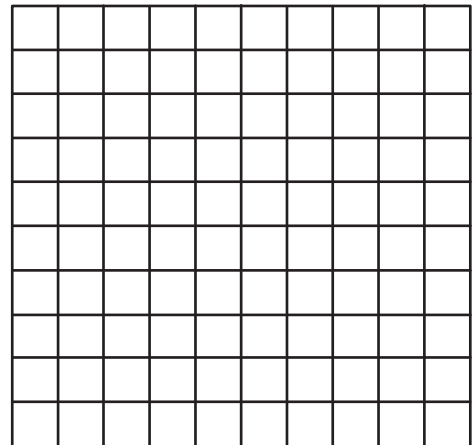**1.** 0.6 x 0.4 = __**0.24**__

2. 0.8 x 0.5 = __**0.40**__

3. 0.2 x 0.7 = __**0.14**__

4. 0.3 x 0.9 = __**0.27**__

Write about it! **ANSWERS WILL VARY**

1. What patterns did you notice? _____

_____

2. Is there a quicker way to find the answer? _____

_____

Talk about it! **ANSWERS WILL VARY**
How did these models help you understand decimal multiplication?