Name: _____

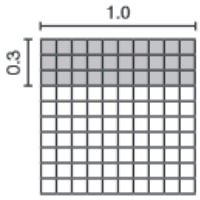
6-4 Models for Multiplying Decimals

Example

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.



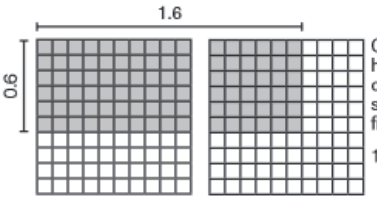
Count the hundredths cells in the shaded area to find the product.

$1.0 \times 0.3 = 0.3$

Multiply 1.6 × 0.6

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

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

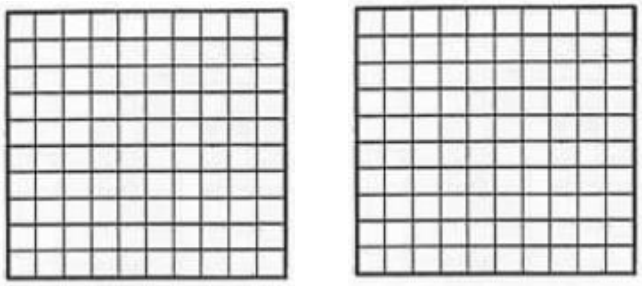


Count the hundredths cells in the shaded area to find the product.

$1.6 \times 0.6 = 0.96$

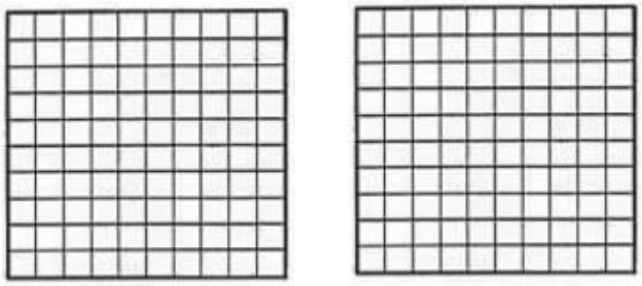
Shade in the hundredths grids to solve the following problems.

1. 4 x 0.12



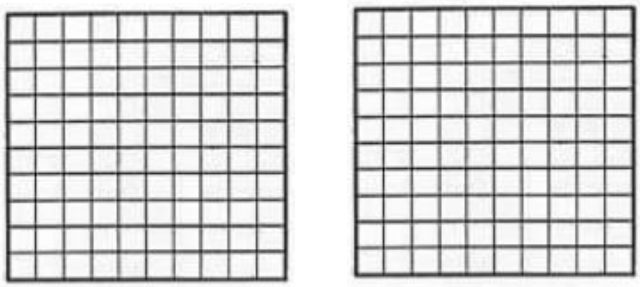
Answer: _____

2. 0.6 x 0.5



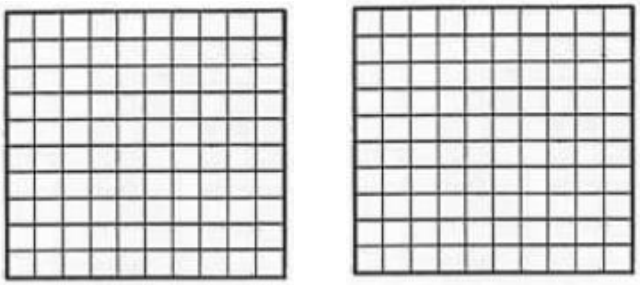
Answer: _____

3. 1.2 x 0.5



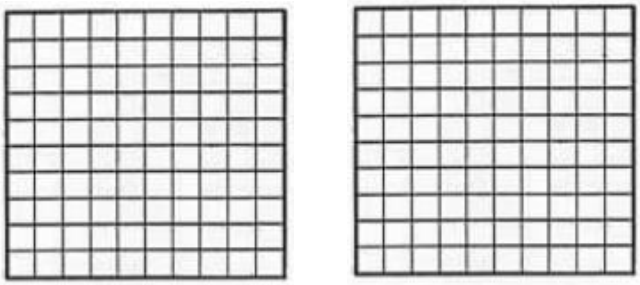
Answer: _____

4. 1.1 x 0.4



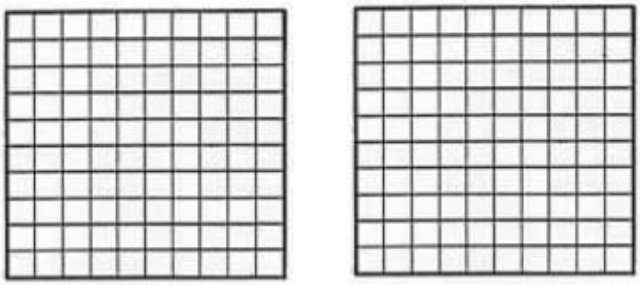
Answer: _____

5. 0.5 x 0.8



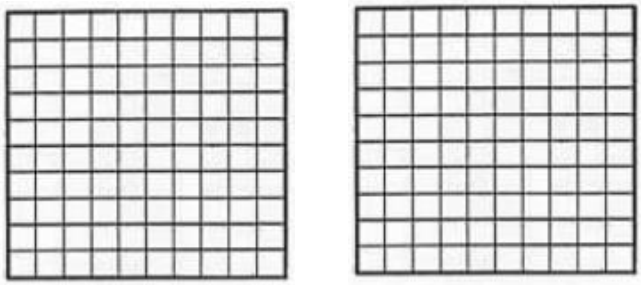
Answer: _____

6. 0.8 x 1.6



Answer: _____

7. 5 x 0.36



Answer: _____

8. Explain why multiplying 37.4 x 0.1 gives a product that is less than 37.4.

_____

_____

_____