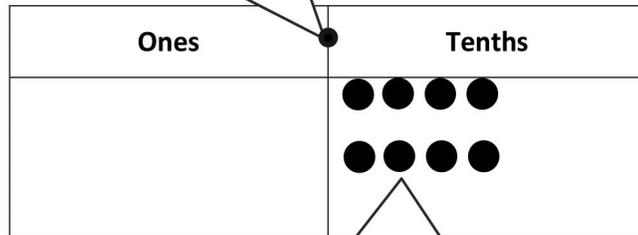


1. Solve by drawing disks on a place value chart. Write an equation, and express the product in standard form.

a. 2 copies of 4 tenths  
 $= 2 \times 0.4$   
 $= 0.8$

2 copies means 2 groups. So, I'll multiply 2 times 4 tenths. The answer is 8 tenths, or 0.8.

I'll draw a place value chart to help me solve, and this dot is the decimal point.

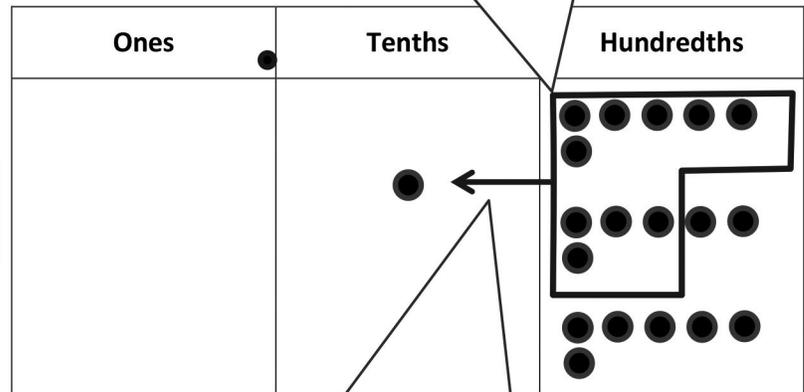


Each dot represents 1 tenth, so I'll draw 2 groups of 4 tenths.

b. 3 times as much as 6 hundredths  
 $= 3 \times 0.06$   
 $= 0.18$

I'll multiply 3 times 6 hundredths. The answer is 18 hundredths, or 0.18.

I'll draw 3 groups of 6 hundredths.



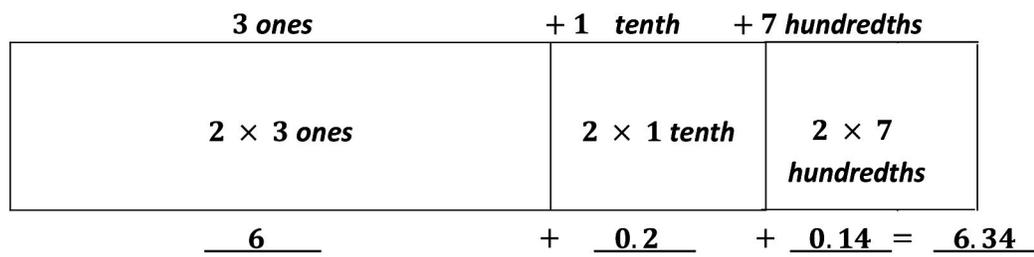
I'll bundle 10 hundredths and exchange them for 1 tenth.

2. Draw an area model, and find the sum of the partial products to evaluate each expression.

a.  $2 \times 3.17$  3.17 is the same as 3 ones 1 tenth 7 hundredths.

The factor 2 represents the width of the area model.

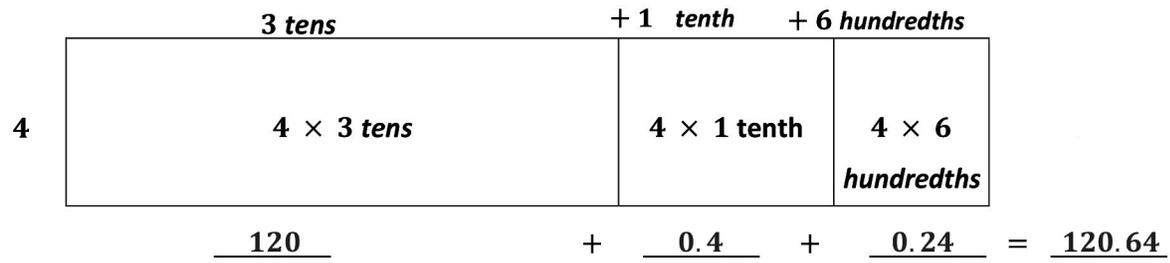
The factor 3.17 represents the length of the area model.



I'll multiply 2 times each place value unit.  
 $2 \times 3 \text{ ones} = 6 \text{ ones} = 6$   
 $2 \times 1 \text{ tenth} = 2 \text{ tenths} = 0.2$   
 $2 \times 7 \text{ hundredths} = 14 \text{ hundredths} = 0.14$

The product of 2 and 3.17 is 6.34.

b. 4 times as much as 30.16 There are 0 ones in 30.16, so my area model does not include the ones.



I'll multiply 4 times each place value unit.  
 $4 \times 3 \text{ tens} = 12 \text{ tens} = 120$   
 $4 \times 1 \text{ tenth} = 4 \text{ tenths} = 0.4$   
 $4 \times 6 \text{ hundredths} = 24 \text{ hundredths} = 0.24$

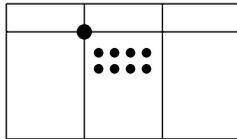
The product of 4 and 30.16 is 120.64.

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve by drawing disks on a place value chart. Write an equation, and express the product in standard form.

a. 2 copies of 4 tenths



$$2 \times 0.4 = 0.8$$

b. 4 groups of 5 hundredths

c. 4 times 7 tenths

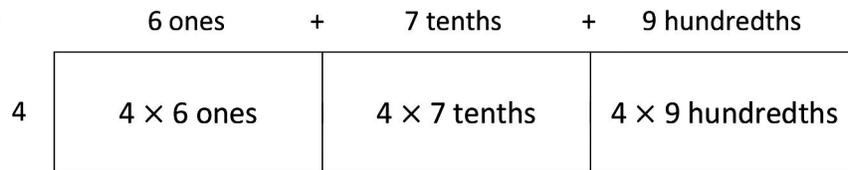
d. 3 times 5 hundredths

e. 9 times as much as 7 tenths

f. 6 tenths times 8

2. Draw a model similar to the one pictured below. Find the sum of the partial products to evaluate each expression.

a.  $4 \times 6.79$



$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

b.  $6 \times 7.49$

c. 9 copies of 3.65

d. 3 times 20.17

3. Leanne multiplied  $8 \times 4.3$  and got 32.24. Is Leanne correct? Use an area model to explain your answer.
4. Anna buys groceries for her family. Hamburger meat is \$3.38 per pound, sweet potatoes are \$0.79 each, and hamburger rolls are \$2.30 a bag. If Anna buys 3 pounds of meat, 5 sweet potatoes, and 1 bag of hamburger rolls, what will she pay in all for the groceries?