# G5-M1-Lesson 11

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

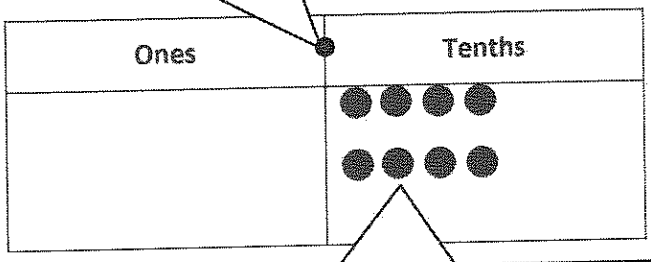
a. 2 copies of 4 tenths

$= 2 \times 0.4$

$= 0.8$

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.

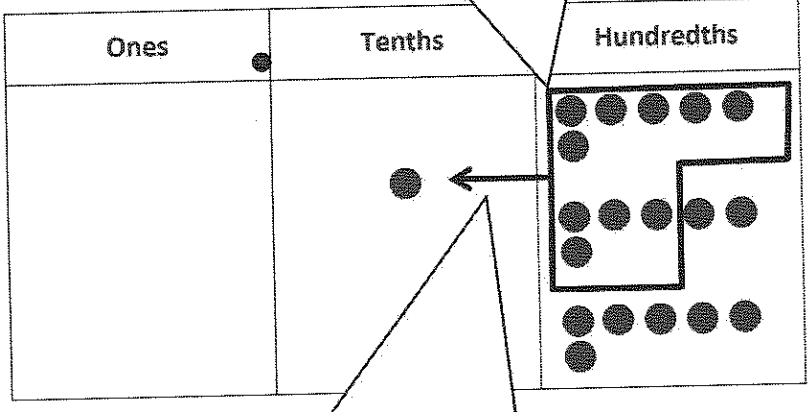
b. 3 times as much as 6 hundredths

$= 3 \times 0.06$

$= 0.18$

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.

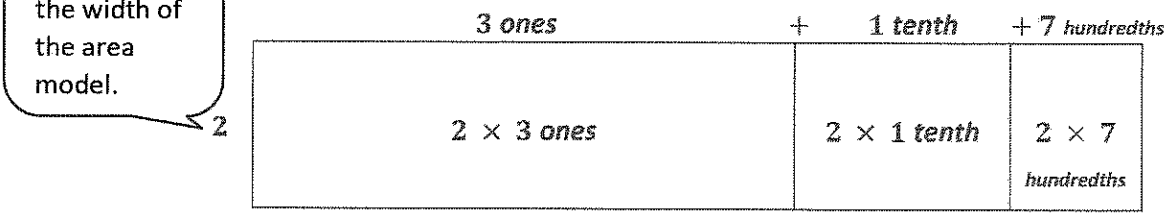
2. Draw an area model, and find the sum of the partial products to evaluate each expression.

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.



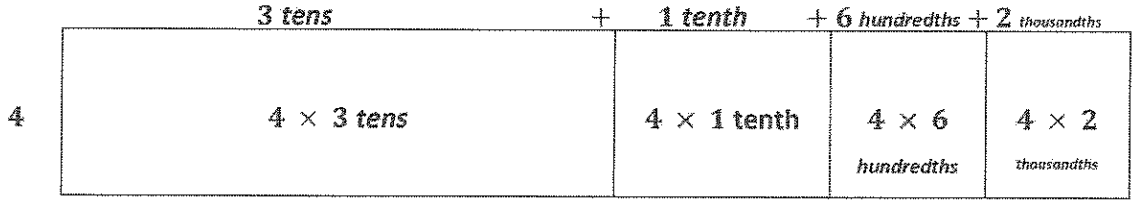

6 + 0.2 + 0.14 = 6.34

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

The product of 2 and 3.17 is 6.34.

b. 4 times as much as 30.162

There are 0 ones in 30.162, so my area model does not include the ones.




120 + 0.4 + 0.24 + 0.008 = 120.648

I'll multiply 4 times each place value unit.
$4 \times 3$ tens $= 12$ tens $= 120$
$4 \times 1$ tenth $= 4$ tenths $= 0.4$
$4 \times 6$ hundredths $= 24$ hundredths $= 0.24$
$4 \times 2$ thousandths $= 8$ thousandths $= 0.008$

The product of 4 and 30.162 is 120.648.