G5-IVI1-Lesson 12

- 1. Choose the reasonable product for each expression. Explain your thinking in the spaces below using words, pictures, or numbers.
 - a. 3.1×3

930

93



0.93

3.1 is just a little more than 3. A reasonable product would be just a little more than 9.

 $3 \times 3 = 9$. I looked for a product that was close to 9.

5.6288 b. 8×7.036 This product is not reasonable. How could

56.288

562.88

5,628.8

 8×7.036 be less than both factors?

These 2 products are much too large.

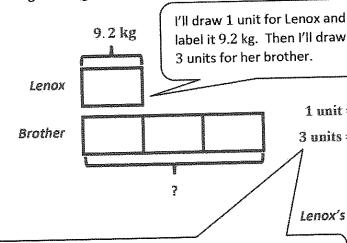
 $8 \times 7 = 56$. I looked for a product that was close to 56.

 $1 \text{ unit} = 9.2 \text{ kg}^2$

 $3 \text{ units} = 3 \times 9.2 \text{ kg}$

= 27.6 kg

2. Lenox weighs 9.2 kg. Her older brother is 3 times as heavy as Lenox. How much does her older brother weigh in kilograms?



I can visualize an area model to solve 3×9.2 .

$$3 \times 9$$
 ones = 27 ones = 27

$$3 \times 2$$
 tenths = 6 tenths =

0.6

$$27 + 0.6 = 27.6$$

Lenox's older brother weighs 27.6 kilograms.

To find her brother's weight, I'll multiply Lenox's weight by 3. The answer is 27.6 kilograms.