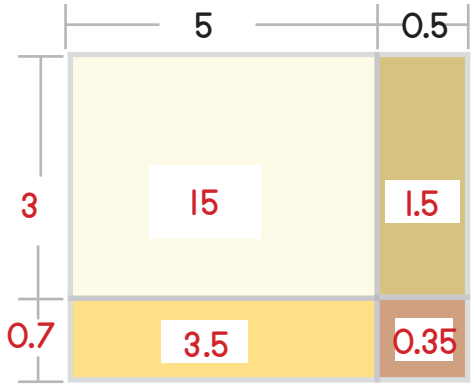
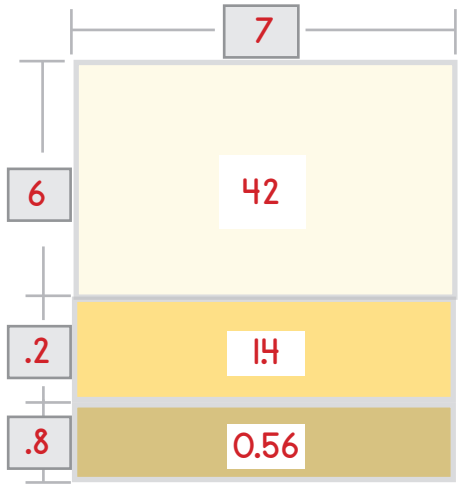
ANSWER KEY

1. Complete the model and matching equation:



$$\begin{array}{r} 5.50 \\ \times\ 3.7 \\ \hline 1500 \quad 5 \times 3 \\ 150 \quad 0.5 \times 3 \\ 350 \quad 0.7 \times 5 \\ +\ 035 \quad 0.7 \times 0.5 \\ \hline 2035 \end{array}$$

2. Create an area model to find the product of 6.28 and 7 :



$$\begin{array}{r} 6.28 \\ \times\ 7 \\ \hline 4200 \quad 6 \times 7 \\ 140 \quad 0.5 \times 7 \\ +\ 056 \quad 0.08 \times 7 \\ \hline 4396 \end{array}$$

3. Solve these two problems using models, words, or numbers:

A.

$$\begin{array}{r} 347 \\ \times\ 23 \\ \hline 6000 \\ 900 \\ 800 \\ 1200 \\ 140 \\ +\ \ 21 \\ \hline 7981 \end{array}$$

300 x 20
300 x 3
40 x 20
40 x 3
7 x 20
7 x 3

B.

$$\begin{array}{r} 3.47 \\ \times\ 23 \\ \hline 60.0 \\ 9.0 \\ 8.0 \\ 1.2 \\ 1.4 \\ +\ 0.21 \\ \hline 79.81 \end{array}$$

3 x 20
3 x 3
0.4 x 20
0.4 x 3
0.07 x 20
0.07 x 3

How are the problems above similar to each other? How can solving one problem help you to solve the other problem?

Answers will vary. Problem 'a' is 100 times greater than problem 'b'. Therefore, the answer to 'a' is 100 times the answer to 'b'.

4. **A.** Write an (A) on the number line below that shows the product of 6.3 and 9.2.
B. Write a (B) on the number line below that shows the product of 273 and 0.3.

Show your work:

A.

6 x 9 = 54
6 x 0.2 = 1.2
0.3 x 9 = 2.7
0.3 x 0.2 = 0.06

54 + 1.2 + 2.7 + 0.06 = 57.96

B.

200 x 0.3 = 60
70 x 0.3 = 21
3 x 0.3 = 0.9

60 + 21 + 0.9 = 81.9

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