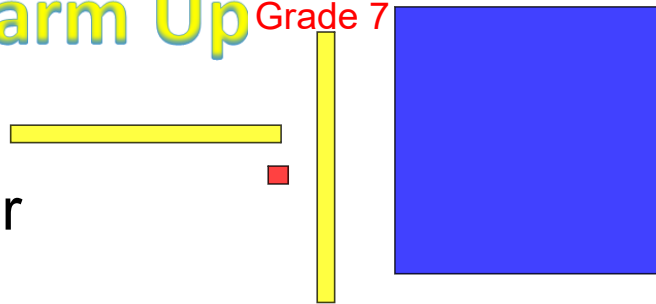


Warm Up Grade 7

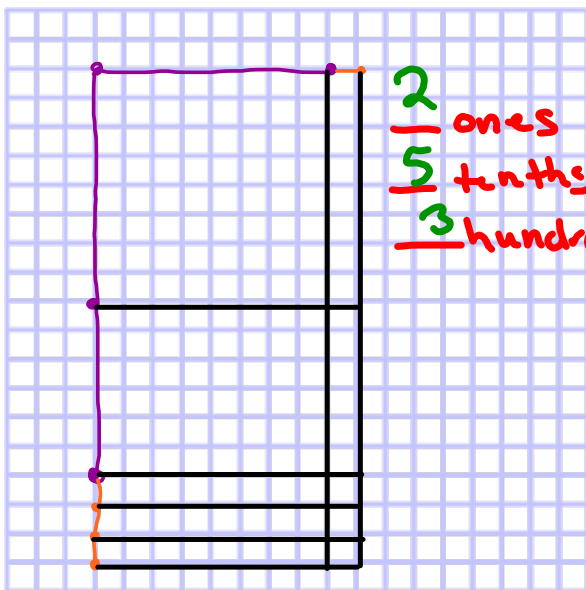


Model and answer

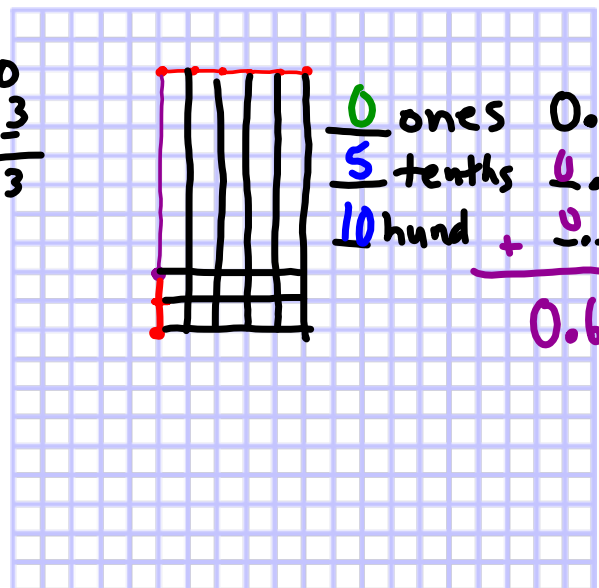
long
short

a) 1.1×2.3

b) 0.5×1.2



$$\begin{array}{r} 2.6 \\ 0.50 \\ 0.03 \\ \hline 2.53 \end{array}$$

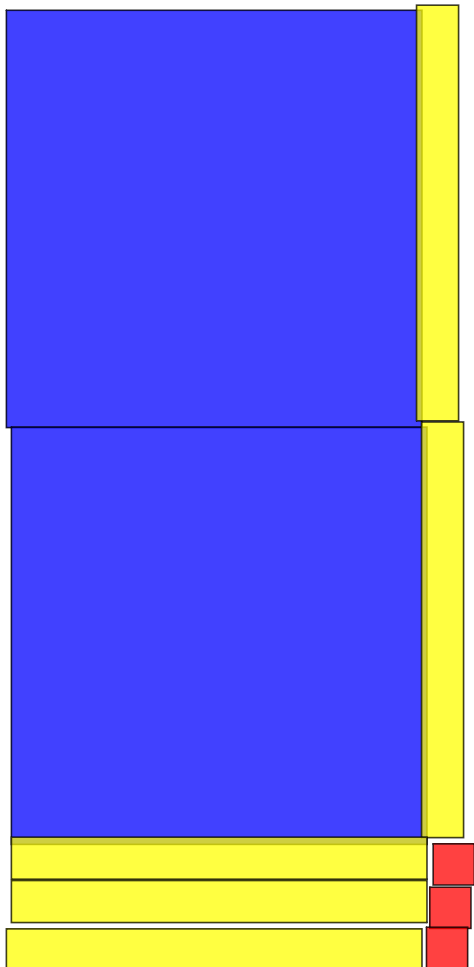


$$\begin{array}{r} 0.00 \\ 0.50 \\ 0.10 \\ \hline 0.60 \end{array}$$

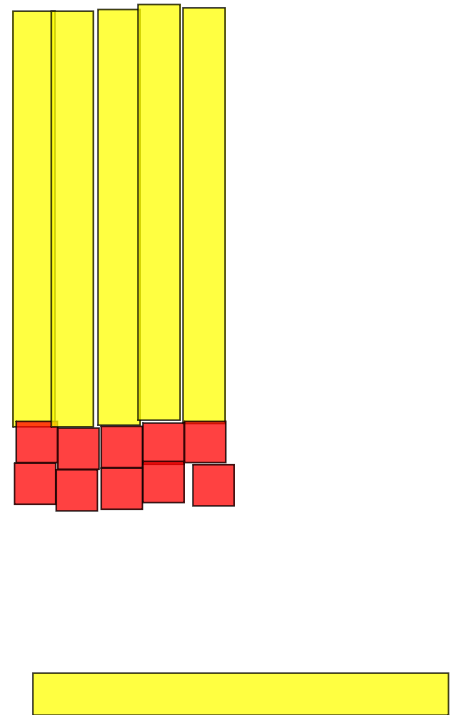
Warm Up Grade 7 solutions

Model and answer

a) 1.1×2.3

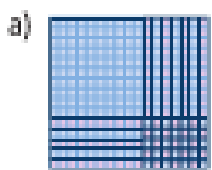


b) 0.5×1.2

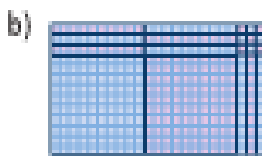


1. Write the product that each picture represents.

Each small square represents 0.01.

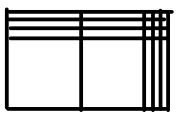


1.7×1.5
1 whole
12 tenths
35 hundredths



$+1.2$
 $+0.35$
2.55

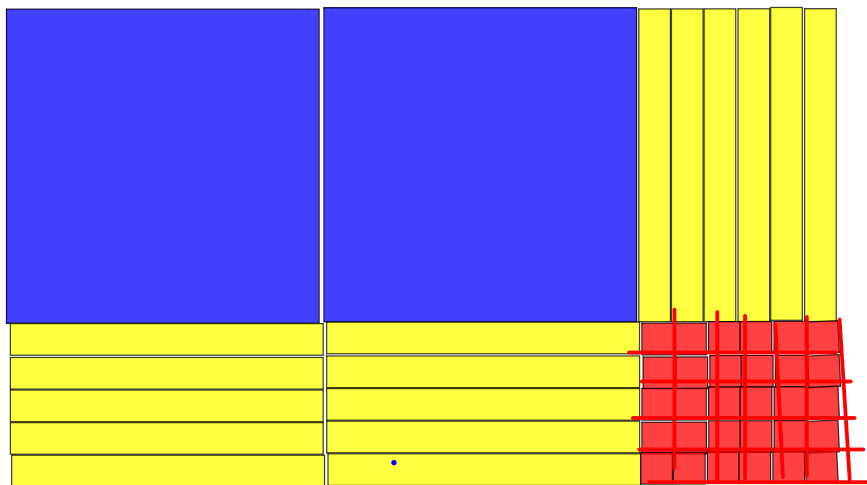
2.3×1.3
2 wholes
9 tenths
9 hundredths
 $+0.9$
0.09
2.99



2. Use Base Ten Blocks to find each product.

Record your work on grid paper.

- a) 2.6×1.5 b) 2.3×0.4 c) 0.8×0.7

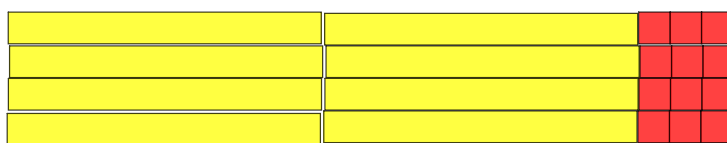


2 wholes
16 tenths
30 hundredths
 $+1.6$
0.30
3.90

3. Choose one part from question 2.

Explain how the Base Ten Blocks show the product.

b) 2.3×0.4

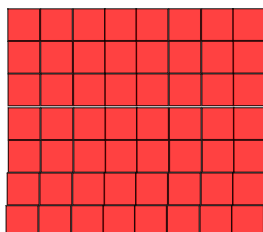


8 tenths
12 hundredths

0.8
 $+0.12$
0.92

2.3
 $\times 0.4$
0.92

c) 0.8×0.7



56 hundredths
0.56

0.8
 $\times 0.7$
0.56

You multiply decimals the same way you multiply whole, but you have to remember to put the decimal in the proper position in your answer.

Try the following:

(a) 2.46×0.58 1.4268 (b) 3.9×1.68

$= 6.552$

$$\begin{array}{r}
 \overset{2}{2} \overset{3}{4} 6 \\
 \times 58 \\
 \hline
 1968 \\
 12300 \\
 \hline
 14268
 \end{array}$$

$$\begin{array}{r}
 \overset{2}{1} \overset{2}{6} 8 \\
 \times 39 \\
 \hline
 1512 \\
 + 5040 \\
 \hline
 6552
 \end{array}$$

You multiply decimals the same way you multiply whole, but you have to remember to put the decimal in the proper position in your answer.

Try the following:

(a) 2.46×0.58

$$\begin{array}{r} 2.46 \\ \times 0.58 \\ \hline 1968 \\ 12300 \\ \hline 1.4268 \end{array}$$

(b) 3.9×1.68

$$\begin{array}{r} 3.9 \\ \times 1.68 \\ \hline 1512 \\ 5040 \\ \hline 6.552 \end{array}$$

$$\begin{array}{r} 5.52 \\ \times 31.6 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 16.0 \\ \times 7.53 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 1.44 \\ \times 5.14 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 63.5 \\ \times 8.24 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 90.8 \\ \times 72.8 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 40.6 \\ \times 84.1 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 34.7 \\ \times 54.0 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 1.15 \\ \times 6.61 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 66.7 \\ \times 7.09 \\ \hline \\ \hline \end{array}$$

Class/Homework

model
4a
use rule
4b c

Page 102

#4, #5, #7, #9, #10, #12

THEN

Finish the previous page

Page 102

4. Multiply. Use a rectangle model.

a) 4.2×3.7

b) 8.9×0.3

c) 0.6×0.9

5. A rectangular plot of land measures 30.5 m by 5.3 m.

What is the area of the plot?

Estimate to check your answer is reasonable.



6. Multiply. Describe any patterns you see.

a) 8.36×10

8.36×100

8.36×1000

$8.36 \times 10\,000$

b) 8.36×0.1

8.36×0.01

8.36×0.001

8.36×0.0001

- 7. Assessment Focus** An area rug is rectangular. Its dimensions are 3.4 m by 2.7 m. Show different strategies you can use to find the area of the rug. Which strategy is best? Justify your answer.



- 9.** The fuel consumption estimates of Josie's car are:
City: 21.2 km/L Highway: 23.3 km/L
The car's gas tank holds 40.2 L of fuel.
- How far could Josie drive on a full tank of gas on the highway before she runs out of fuel?
 - How far could she drive on a full tank of gas in the city?
What assumptions did you make?

10. Find the cost of each item at the Farmers' Market.
Which strategy will you use? Justify your choice.

a) 2.56 kg of apples at \$0.95/kg

b) 10.5 kg of potatoes at \$1.19/kg

c) 0.25 kg of herbs at \$2.48/kg

12. a) Multiply 18×12 .

b) Use only the result from part a and estimation.

Find each product.

i) 1.8×12

ii) 18×0.12

iii) 0.18×12

iv) 0.18×0.12