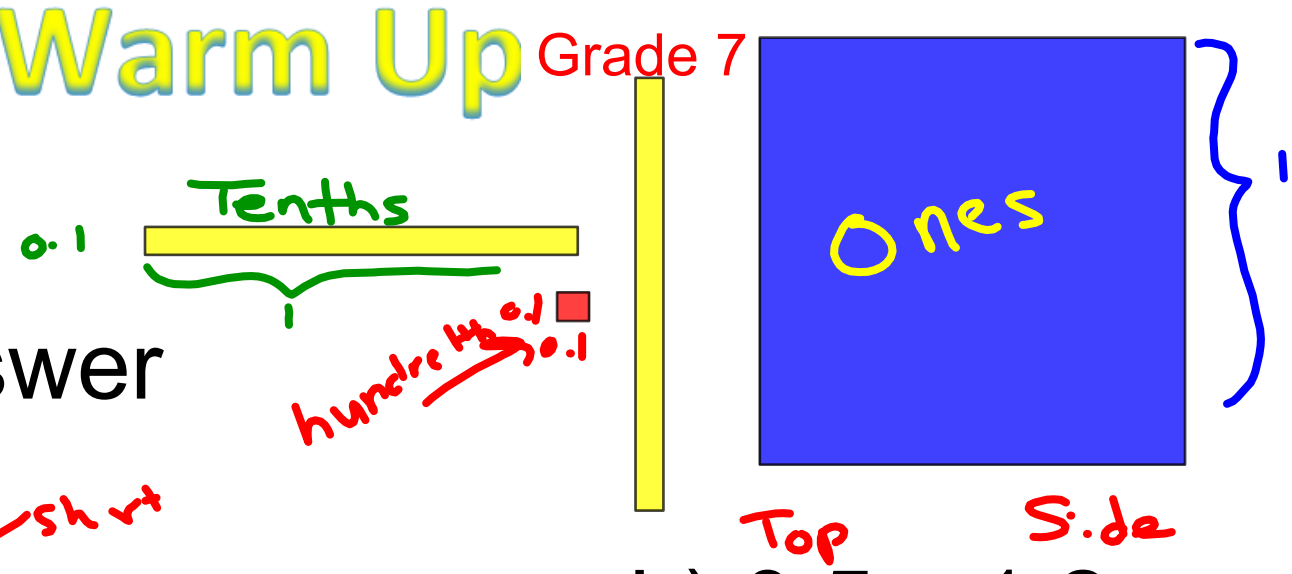
Warm Up Grade 7

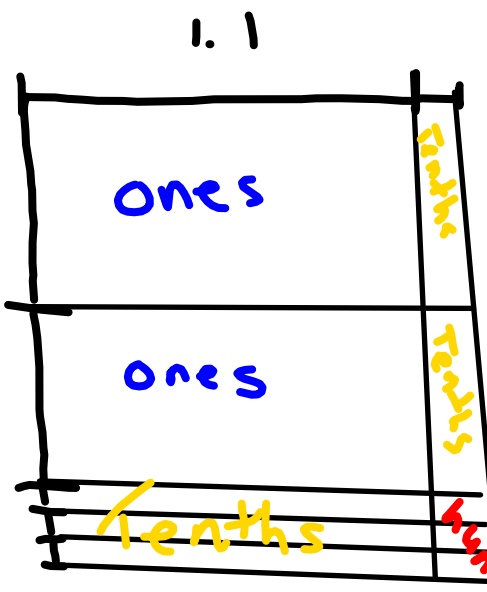


Model and answer

a) 1.1 x 2.3

long short

long short

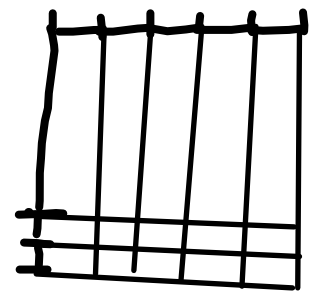


2 ones
5 tenths
3 hundredths

2.00
0.50
+ 0.03
2.53

1.1 X 2.3 ⇒

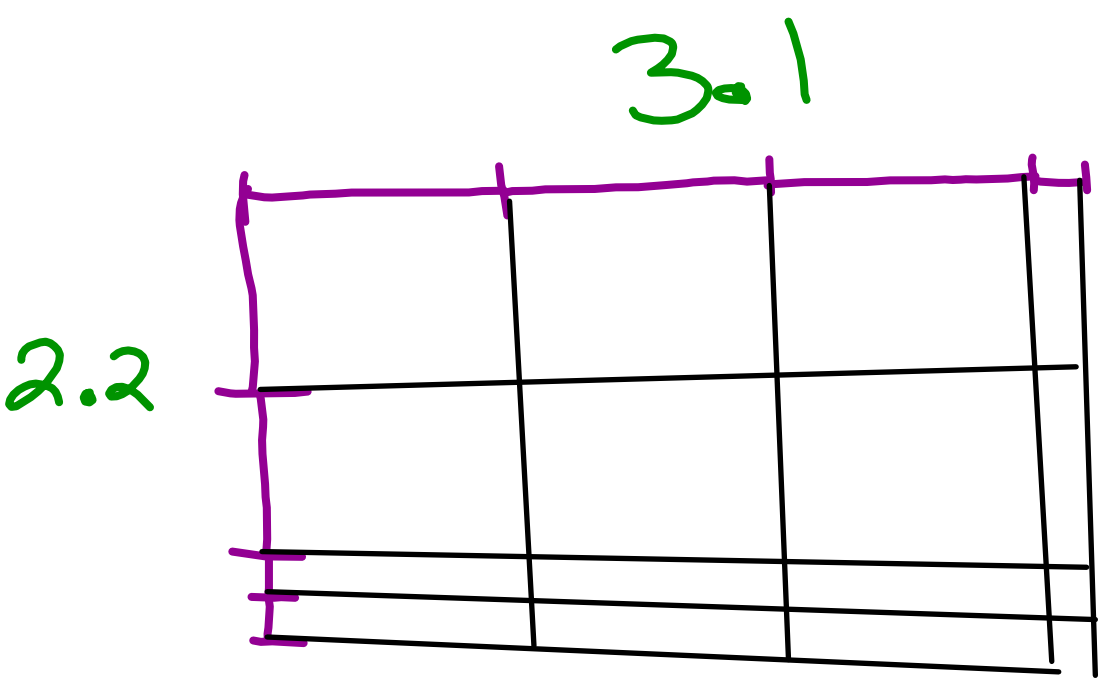
b) 0.5 x 1.2



0 ones
5 tenths
10 hundredths

0.00
0.50
+ 0.10
0.60

0.5 x 1.2 = 0.60

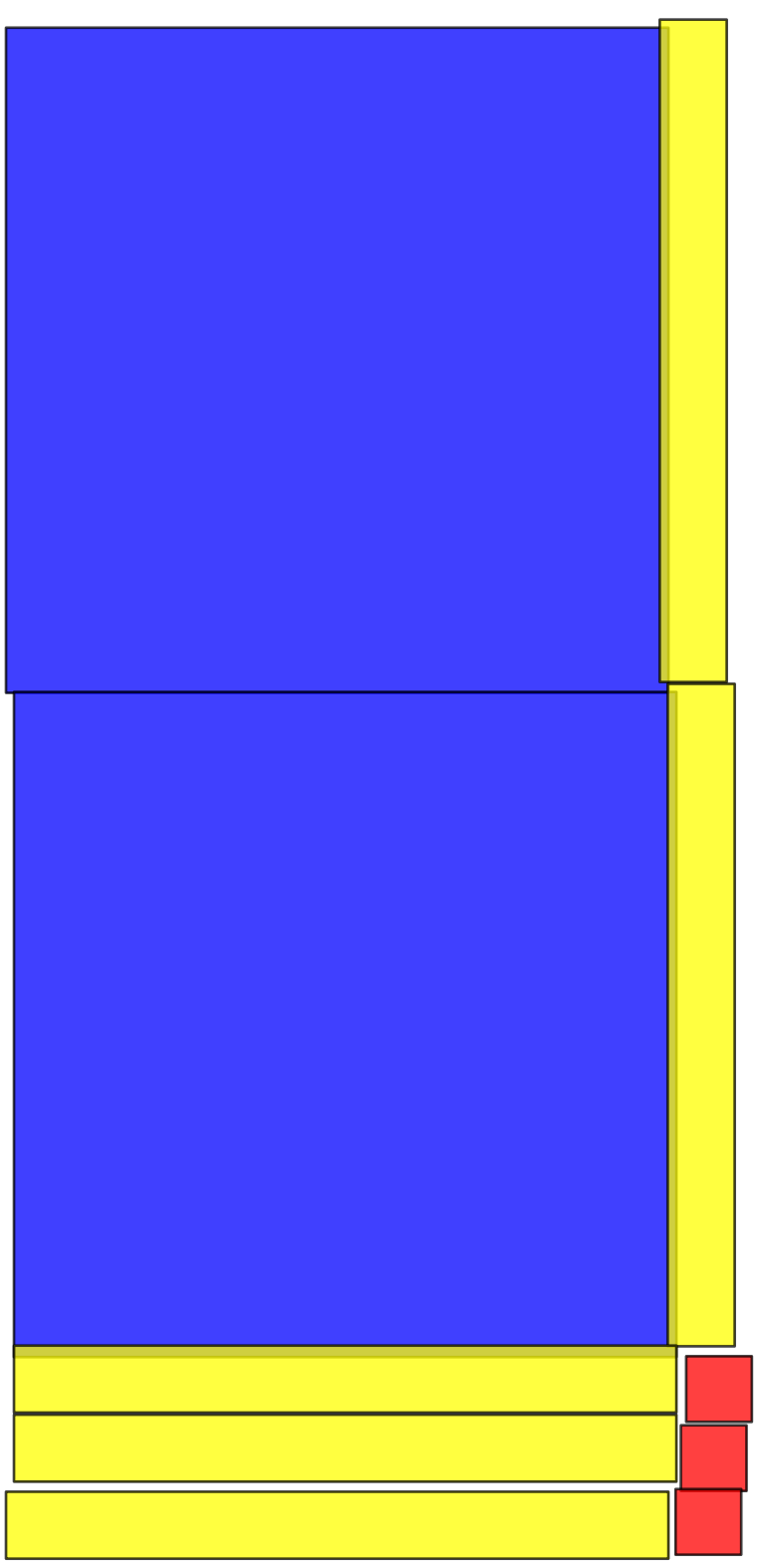


3.1 x 2.2

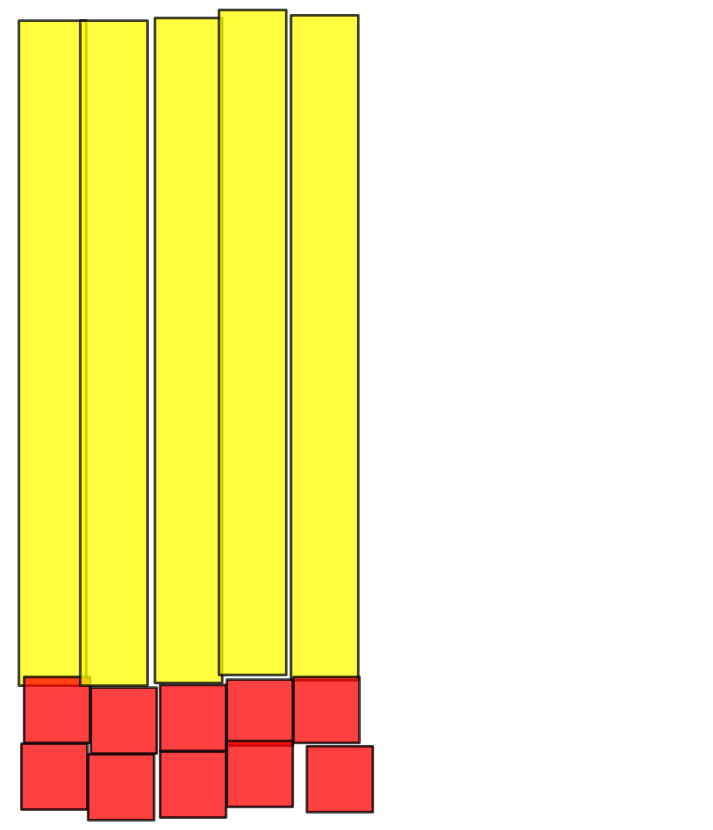
Warm Up Grade 7 solutions

Model and answer

a) 1.1 x 2.3



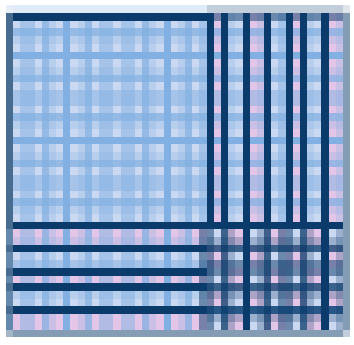
b) 0.5 x 1.2



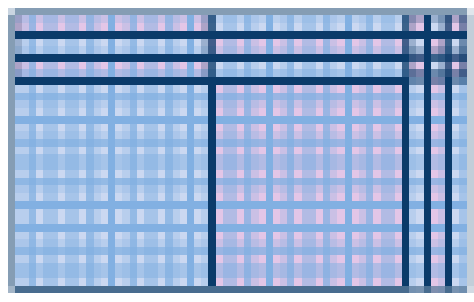
1. Write the product that each picture represents.

Each small square represents 0.01.

a)



b)



2.3 x 1.3

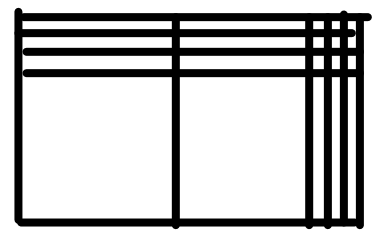
2 wholes
9 tenth
9 hundredth

$$\begin{array}{r} 2 \\ +\ 0.9 \\ \hline 0.09 \\ \hline 2.99 \end{array}$$

1.7 x 1.5

1 whole
12 tenths
35 hundredth

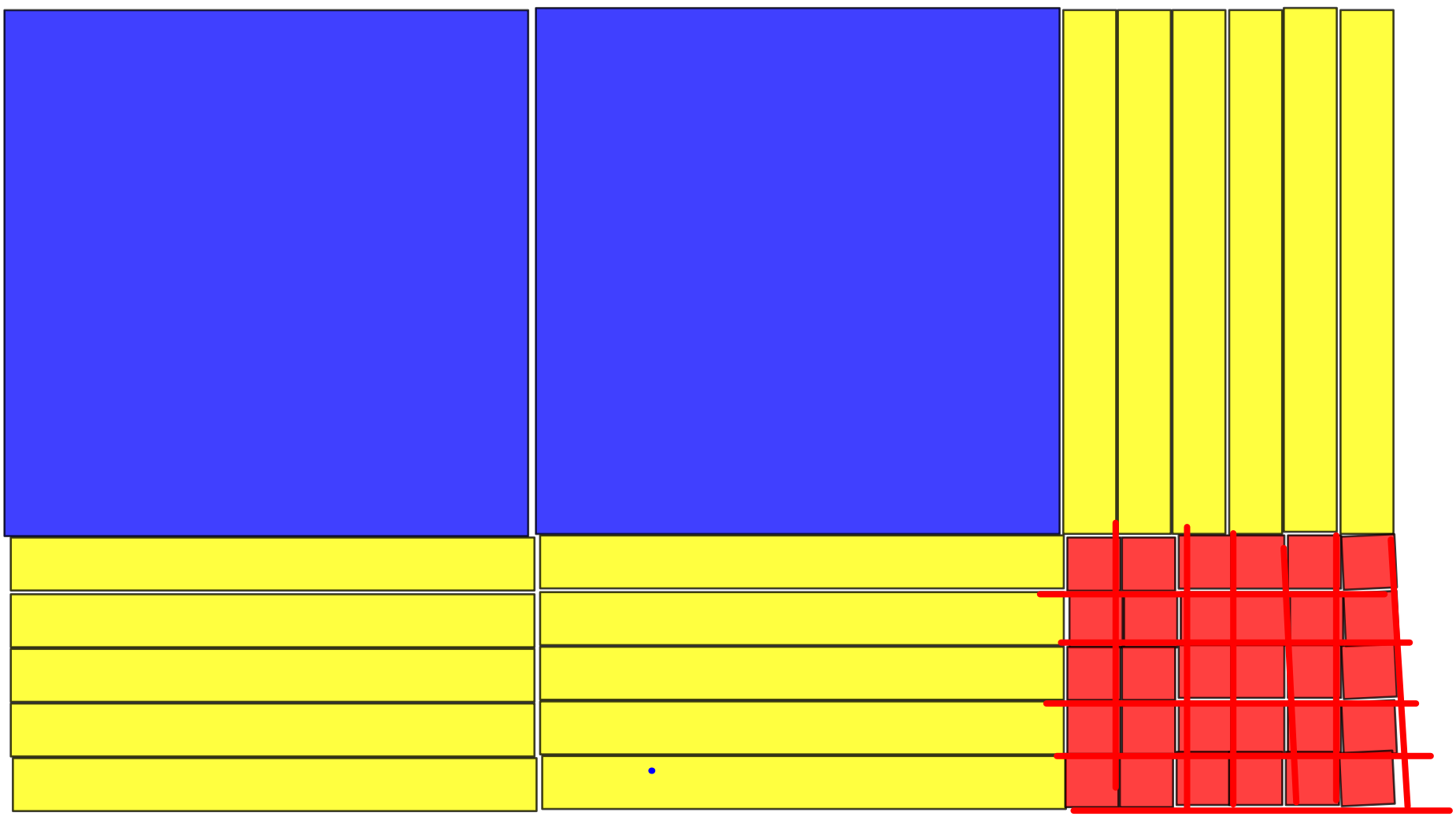
$$\begin{array}{r} 1 \\ +\ 1.2 \\ +\ 0.35 \\ \hline 2.55 \end{array}$$



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



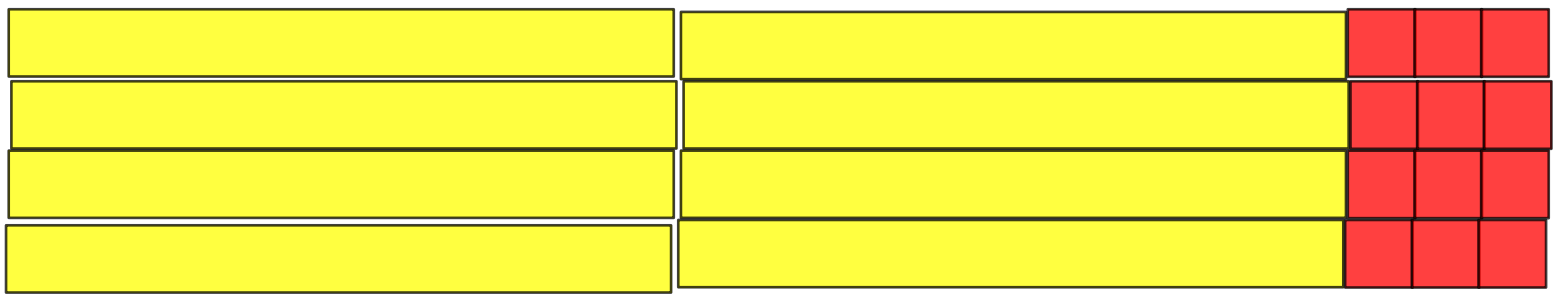
2 wholes
16 tenths
30 hundredths

$$\begin{array}{r} 2 \\ 1.6 \\ +\ 0.30 \\ \hline 3.90 \end{array}$$

3. Choose one part from question 2.

Explain how the Base Ten Blocks show the product.

b) 2.3 x 0.4

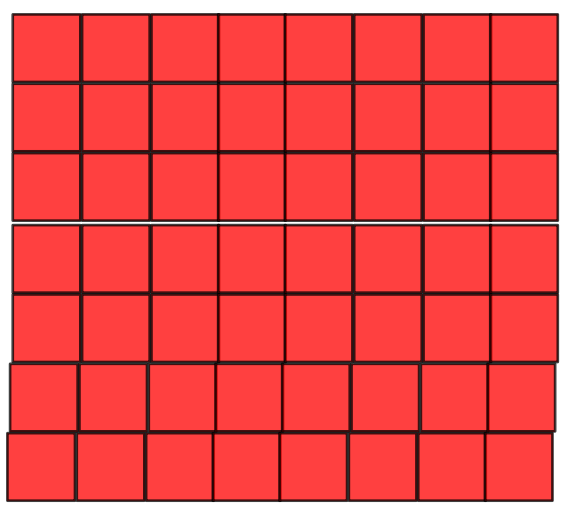


8 tenths
12 hundredth

0.8
+0.12
0.92

$$\begin{array}{r} 2.3 \\ \times 0.4 \\ \hline .92 \end{array}$$

c) 0.8 x 0.7



56 hundredth
0.56

$$\begin{array}{r} 0.8 \\ \times 0.7 \\ \hline .56 \end{array}$$

Ex) 2.34 x 1.2

Multiplying Decimals

1. Multiply like whole numbers. Think 234 x 12
2. Count decimal places in the problem.
3. Put the same number of places behind the decimal in the product.

$$
\begin{array}{rl}
2.34 & \text{2 decimal places} \\
\times\ 1.2 & +\ \text{1 decimal place} \\
\hline
2.808 & \text{3 decimal places}
\end{array}
$$

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.

Step 1) Write the numbers stacked on top of each other.

(The last digits NEED to line up)

Step 2) Multiply like you have done before

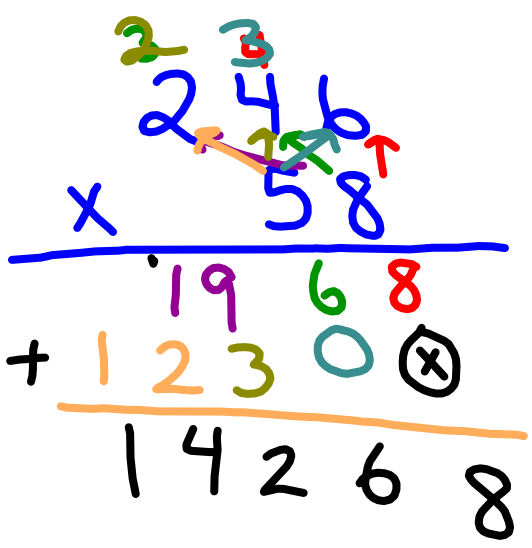
Step 3) Place decimal in final answer by using estimation or counting decimals

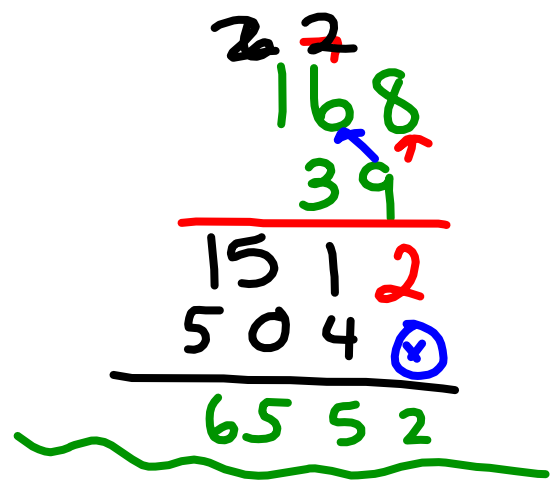
Try the following:

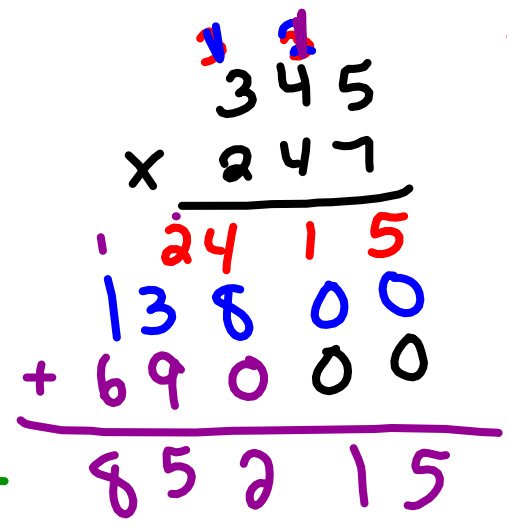
(a) 2.46 x 0.58 = 1.4268

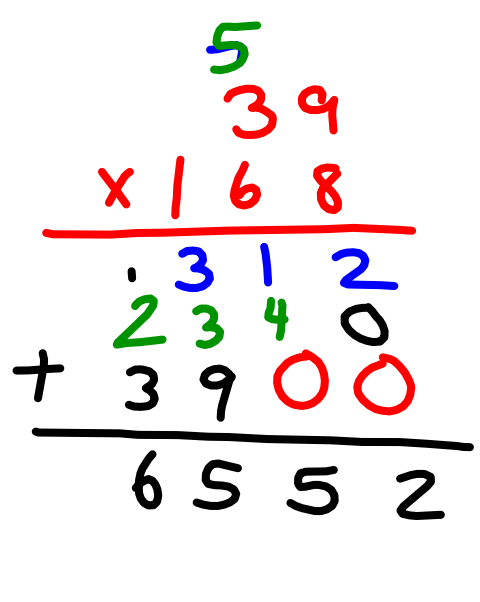
(b) 3.9 x 1.68 = 6.552

c) 34.5 x 24.7 = 852.15









Worksheet

(Next page is same WS Line Up

lined up

1) 5.52 x 31.6

2) 16.0 x 7.53

3) 1.44 x 5.14

4) 63.5 x 8.24

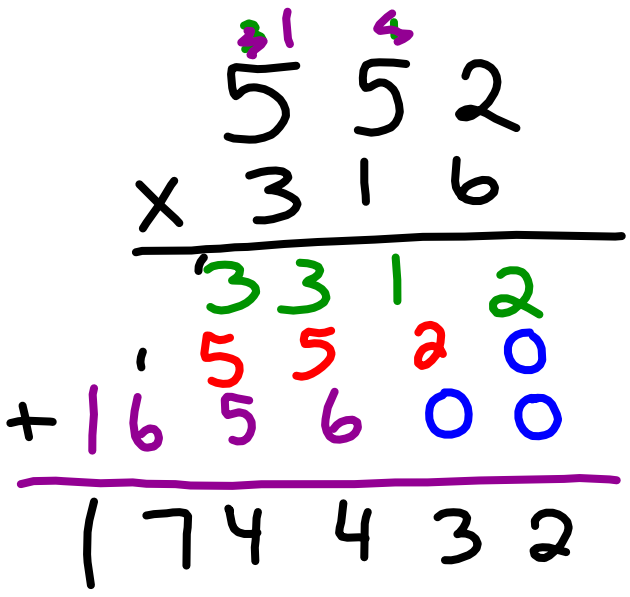
5) 908 x 72.8

6) 40.6 x 8.41

7) 34.7 x 54.0

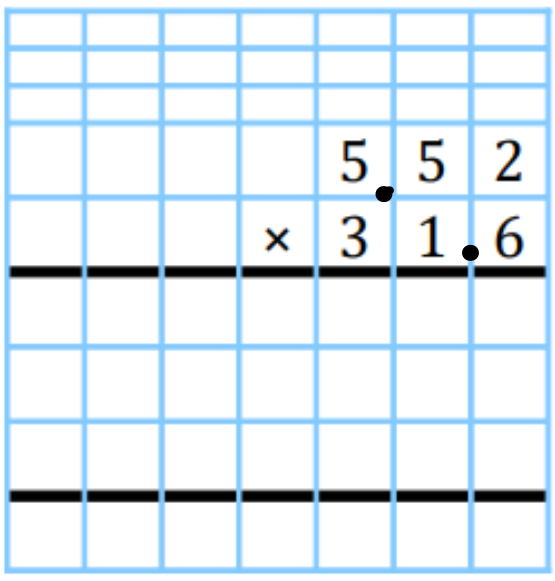
8) 1.15 x 6.61

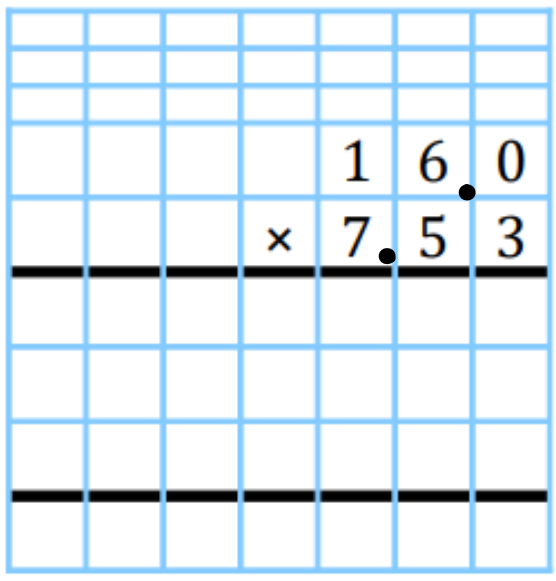
9) 66.7 x 7.09

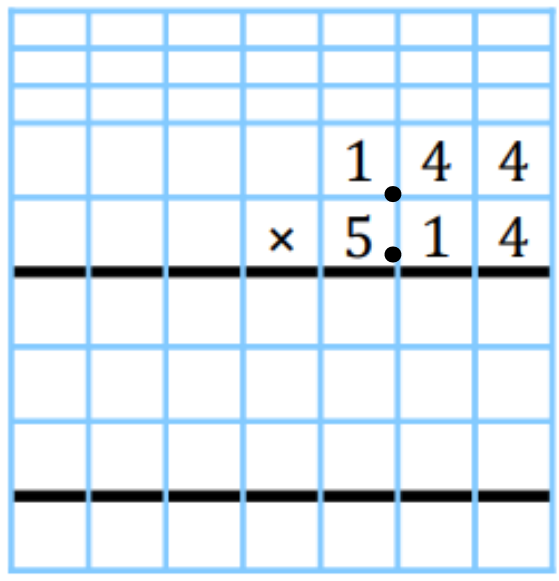


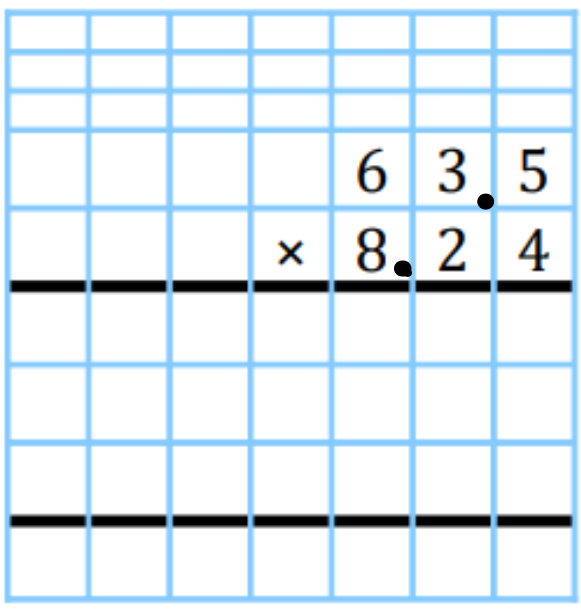
5.52 x 31.6
= 174.432

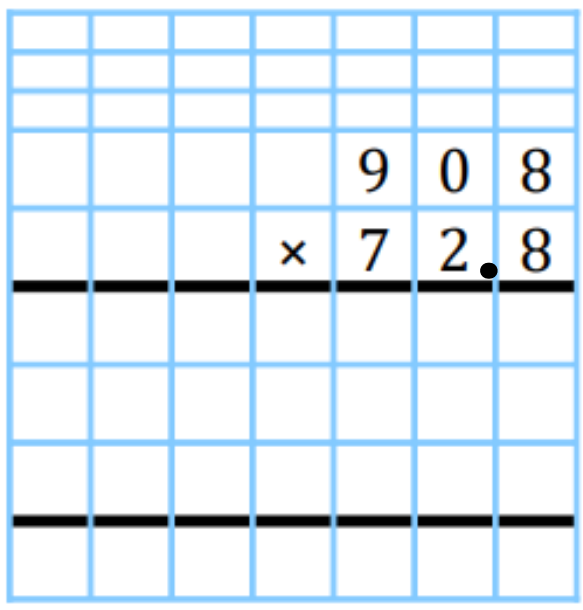
552 x 316 = 174432
✓ 5.52 x 31.6 = 174.432

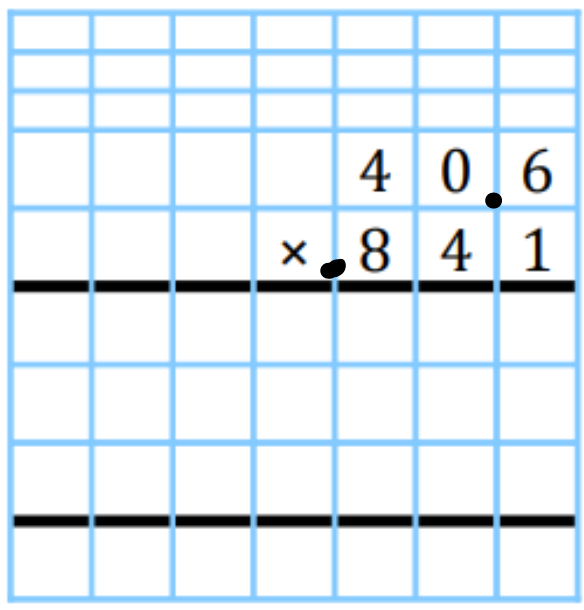

5 5 2
× 3 1 6

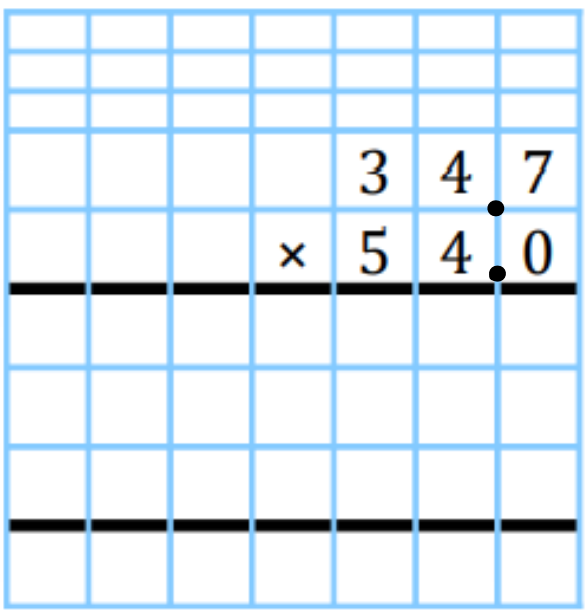

1 6 0
× 7 5 3

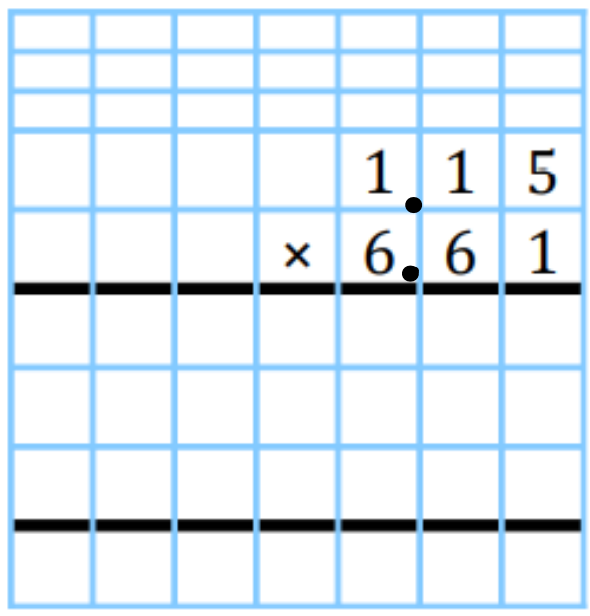

1 4 4
× 5 1 4

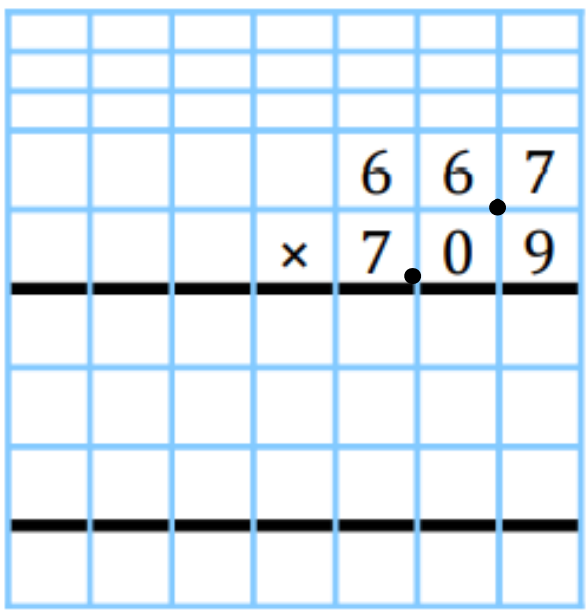

6 3 5
× 8 2 4


9 0 8
× 7 2 8


4 0 6
× 8 4 1


3 4 7
× 5 4 0


1 1 5
× 6 6 1


6 6 7
× 7 0 9

Class/Homework

Finish the previous page

THEN Tomorrow

Page 102

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

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.

a) How far could Josie drive on a full tank of gas on the highway before she runs out of fuel?

b) 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