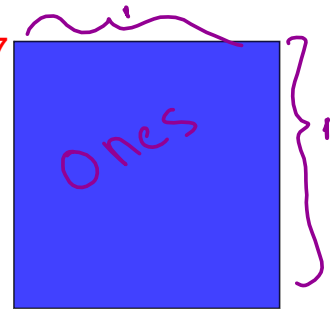
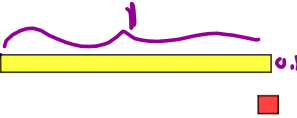


Warm Up

Quiz not tomorrow but next day

Wednesday

Grade 7



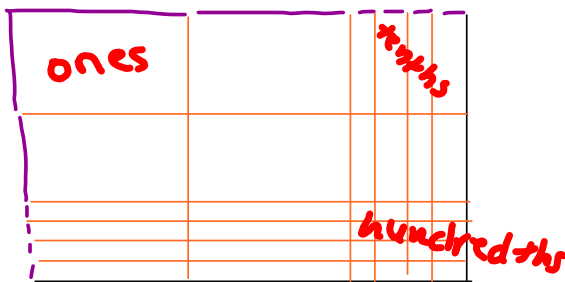
Model and answer

a) 2.4×2.4

top *side*

2 long *4 short*

b) 3.1×0.3



$$\begin{array}{r}
 0 \text{ ones} \quad 0.00 \\
 9 \text{ tenths} \quad 0.90 \\
 3 \text{ hundredths} \quad + 0.03 \\
 \hline
 0.93
 \end{array}$$

$$\begin{array}{r}
 4 \text{ ones} \quad 4.00 \\
 16 \text{ tenths} \quad 1.60 \\
 16 \text{ hundredths} \quad + 0.16 \\
 \hline
 5.76
 \end{array}$$

$$3.1 \times 0.3 = 0.93$$

$$2.4 \times 2.4 = 5.76$$

$$\begin{array}{r} 55.2 \\ \times 31.6 \\ \hline 3312 \\ 5520 \\ 165600 \\ \hline 174432 \end{array}$$

$$\begin{array}{r} 160 \\ \times 753 \\ \hline 480 \\ 8000 \\ 112000 \\ \hline 120480 \end{array}$$

$$\begin{array}{r} 144 \\ \times 514 \\ \hline 576 \\ 1440 \\ 72000 \\ \hline 74076 \end{array}$$

$$\begin{array}{r} 635 \\ \times 824 \\ \hline 2540 \\ 12700 \\ 508000 \\ \hline 523240 \end{array}$$

$$\begin{array}{r} 908 \\ \times 728 \\ \hline 7264 \\ 18160 \\ 635600 \\ \hline 661024 \end{array}$$

$$\begin{array}{r} 406 \\ \times 841 \\ \hline 406 \\ 16240 \\ 324800 \\ \hline 341446 \end{array}$$

$$\begin{array}{r} 347 \\ \times 540 \\ \hline 000 \\ 13880 \\ 173500 \\ \hline 187380 \end{array}$$

$$\begin{array}{r} 115 \\ \times 661 \\ \hline 115 \\ 6900 \\ 69000 \\ \hline 76015 \end{array}$$

$$\begin{array}{r} 667 \\ \times 709 \\ \hline 6003 \\ 0000 \\ 466900 \\ \hline 472903 \end{array}$$

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) 42.7×0.6

$$\begin{array}{r} 42.7 \\ \times 0.6 \\ \hline 2562 \end{array}$$

(b) 1.23×4.2

$$\begin{array}{r} 1.23 \\ \times 4.2 \\ \hline .246 \\ + 492 \\ \hline 5.166 \end{array}$$

(c) 21.6×5.56

$$\begin{array}{r} 21.6 \\ \times 5.56 \\ \hline .1296 \\ 1080 \\ + 080 \\ \hline 120.096 \end{array}$$

Class/Homework

Quiz not tomorrow but next day

Jan 23

Page 102

Wednesday

(Jan 25)

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

If you need more then do the following on your own paper

1) 12.36×7.2 2) 3.25×0.4 3) 1.9×2.37 4) 14.7×6.2

5) 60.7×124 6) 8×54.7 7) $12.7 + 0.25$ 8) $14.3 - 1.24$

9) $115.69 + 21.24$

1) 12.36×7.2

$$\begin{array}{r} 12.36 \\ \times 7.2 \\ \hline 2472 \\ 86520 \\ \hline 88992 \end{array}$$

2) 3.25×0.4

$$\begin{array}{r} 3.25 \\ \times 0.4 \\ \hline 1300 \end{array}$$

3) 1.9×2.37

$$\begin{array}{r} 1.9 \\ \times 2.37 \\ \hline 2133 \\ 2370 \\ \hline 4503 \end{array}$$

4) 14.7×6.2

$$\begin{array}{r} 14.7 \\ \times 6.2 \\ \hline 294 \\ 8820 \\ \hline 9114 \end{array}$$

5) 60.7×124

$$\begin{array}{r} 60.7 \\ \times 124 \\ \hline 2428 \\ 12140 \\ + 60700 \\ \hline 75268 \end{array}$$

6) 8×54.7

$$\begin{array}{r} 54.7 \\ \times 8 \\ \hline 4376 \end{array}$$

7) $12.7 + 0.25$

$$\begin{array}{r} 12.70 \\ + 0.25 \\ \hline 12.95 \end{array}$$

8) $14.3 - 1.24$

$$\begin{array}{r} 14.30 \\ - 1.24 \\ \hline 13.06 \end{array}$$

9) $115.69 + 21.24$

$$\begin{array}{r} 115.69 \\ + 21.24 \\ \hline 136.93 \end{array}$$

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