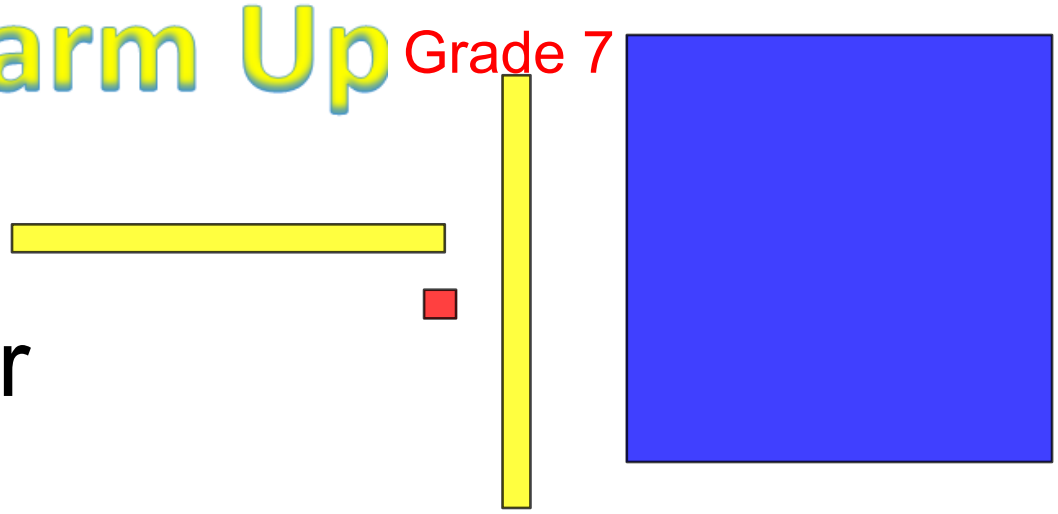
Warm Up

Grade 7

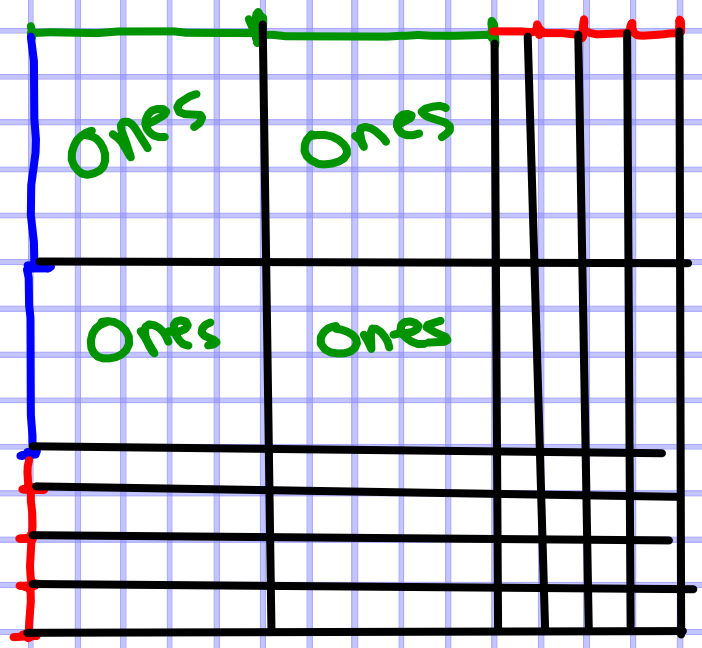
Quiz Wednesday



Model and answer

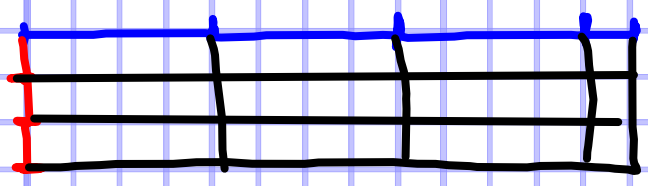
a) 2.4 x 2.4

b) 3.1 x 0.3



4 ones
16 tenths
16 hundredths

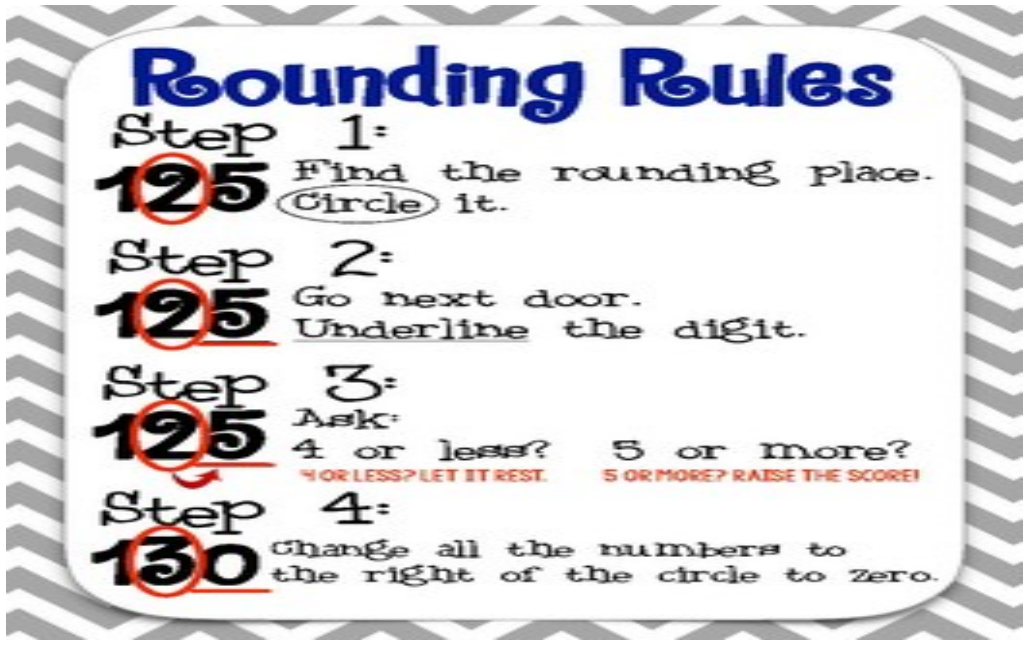
$$\begin{array}{r} 4.00 \\ 1.60 \\ +\ 0.16 \\ \hline 5.76 \end{array}$$



0 ones
9 tenths
3 hundredths

$$\begin{array}{r} 0.000 \\ 0.900 \\ +\ 0.030 \\ \hline 0.930 \end{array}$$

Add to notes



ones • tenths hundredths thousandths

Round the following to the tenths place

a) 124.369

124.4

b) 0.11

0.1

c) 2.98

3.0

Round the following to the hundredths place

a) 175.662

175.66

b) 105.211

105.21

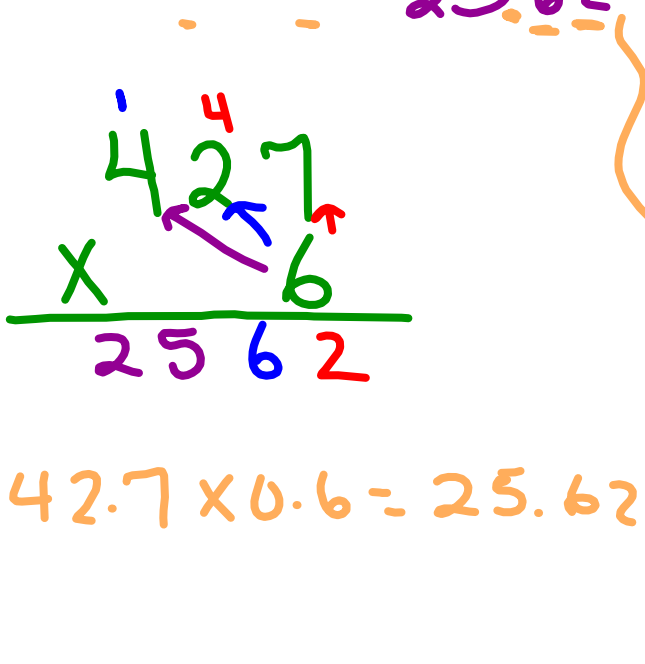
c) 0.082

0.08

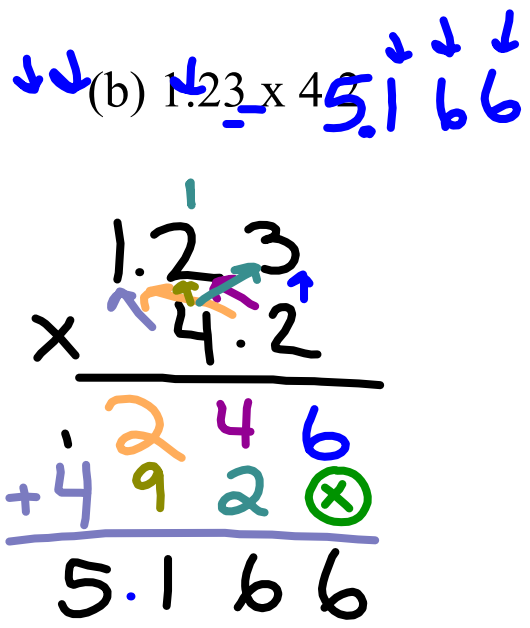
You multiply decimals the same way you multiply whole, but you have to remember to put the decimal in the proper position in your answer.

Try the following:

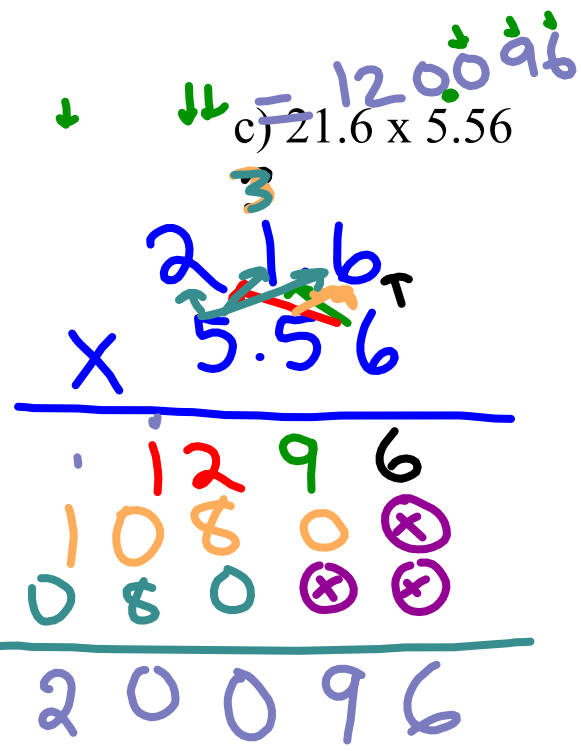
(a) 42.7 x 0.6



(b) 1.23 x 4.2



c) 21.6 x 5.56



Class/Homework

TODAY

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#5, #7, #10, #12

Quiz _____

(#1 to 5)

Then Finish worksheet from ~~Yesterday~~ Wed

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

1) 12.36 x 7.2

2) 3.25 x 0.4

3) 1.9 x 2.37

4) 14.7 x 6.2

5) 60.7 x 124

6) 8 x 54.7

line up

7) 12.7 + 0.25

line up

8) 14.3 - 1.24

line up

9) 115.69 +21.24

				1		
				3	1	
				5	5	2
			×	3	1	6
			3	3	1	2
		.	5	5	2	0
	1	6	5	6	0	0
	1	7	4	4	3	2

				4		
				1	6	0
			×	7	5	3
				4	8	0
		,	8	0	0	0
	1	1	2	0	0	0
	1	2	0	4	8	0

				2	2	
				1	4	4
			×	5	1	4
			,	5	7	6
			1	4	4	0
		7	2	0	0	0
		7	4	0	1	6

				2	4	
				,	2	
				6	3	5
			×	8	2	4
		,	2	5	4	0
		1	2	7	0	0
	5	0	8	0	0	0
	5	2	3	2	4	0

					5	
					1	
				9	0	8
			×	7	2	8
		2	7	2	6	4
		1	8	1	6	0
	6	3	5	6	0	0
	6	6	1	0	2	4

					4	
				2	2	
				4	0	6
			×	8	4	1
		.	.	4	0	6
		1	6	2	4	0
	3	2	4	8	0	0
	3	4	1	4	4	6

				2	3	
				1	2	
				3	4	7
			×	5	4	0
			.	0	0	0
		1	3	8	8	0
	1	7	3	5	0	0
	1	8	7	3	8	0

					3	
					3	
				1	1	5
			×	6	6	1
			.	1	1	5
		.	6	9	0	0
		6	9	0	0	0
		7	6	0	1	5

				4	4	
				6	6	
				6	6	7
			×	7	0	9
			6	0	0	3
		.	0	0	0	0
	4	6	6	9	0	0
	4	7	2	9	0	3

1) 12.36 x 7.2

12.36

7.2

2472

86520

88992

2) 3.25 x 0.4

3.25

x 0.4

1300

3) 1.9 x 2.37

2.37

x 1.9

2133

2370

4503

4) 14.7 x 6.2

14.7

x 6.2

294

8820

9114

5) 60.7 x 124

60.7

x 124

2428

12140

+ 60700

75268

6) 8 x 54.7

54.7

x 8

4376

7) 12.7 + 0.25

12.70

+ 0.25

12.95

8) 14.3 - 1.24

14.30

- 1.24

13.06

9) 115.69 +

115.69

+ 21.24

136.93

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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