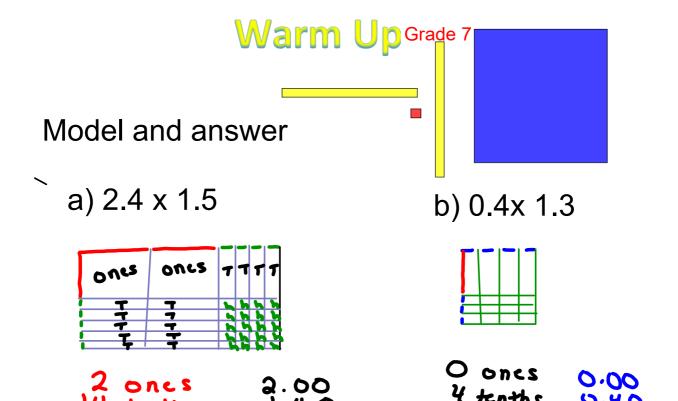
12 hundredths + 0.12



Quiz tomorrow

Examples

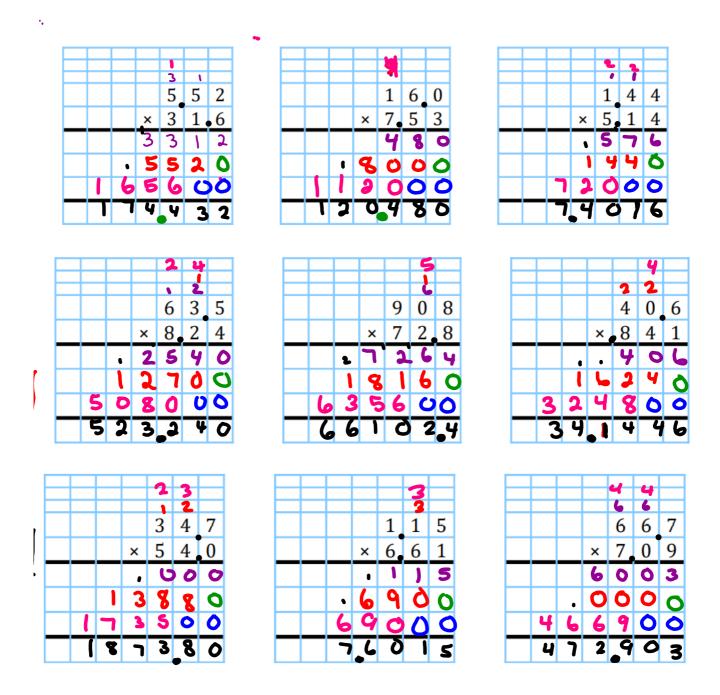
adding decimals a) 12.36 + 0.258

multiplying decimals a) 15.7 x 0.6

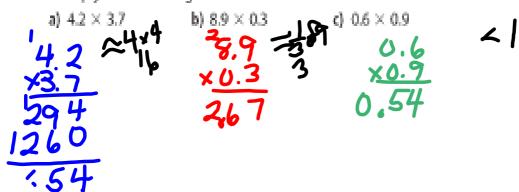
Rounding a decimal to the tenths place a) 127.62 b) 0.975

model multiplication of decimals with area model a) 1.3 x 2.5

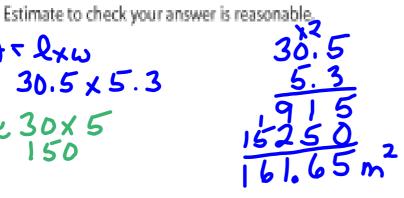
16 pts total



4. Multiply. Use a rectangle model.



5. A rectangular plot of land measures 30.5 m by 5.3 m. What is the area of the plot?



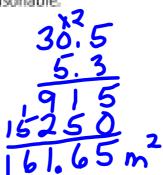
Homework Solutions

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.

$$4 \times 2 \times 6$$
 30.5×5.3
 20×5
 150



6) Multiply. Describe the pattern

a)
$$8.36 \times 10 = 83.6$$

$$8.36 \times 100 = 836$$

$$8.36 \times 1000 = 8360$$

When you multiply by multiples of 10 (10,100, 1000...), the digit in the product moves one place to the left each time. (Or, the decimal point moves one place to the right each time.)

a)
$$8.36 \times 0.1 = 0.836$$

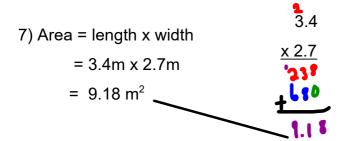
$$8.36 \times 0.01 = 0.0836$$

$$8.36 \times 0.001 = 0.00836$$

$$8.36 \times 0.0001 = 0.000836$$

When you multiply by multiples of 0.1 (0.1,0.01, 0.001..), the digit in the product moves one place to the right each time. (Or, the decimal point moves one place to the left each time.)

Homework Solutions



- 8) a) 2.7 x 4.786 = 12.9222
 - b) 12.52 x 13.923 = 174.31596
 - c) $0.986 \times 1.352 = 1.333072$

City: 21.2 km/L

9. The fuel consumption estimates of Josie's car are:

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?

x 40.2 4 6 6 9 3 2 0 0 9 3 6 6 6

she can drive 936.66 km on a full tank.

Homework Solutions

In the city she can drive 852.24km

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

≈ \$2.50

Apples \$2.43

10 x 1.19 = 11.90 0.5 x 1.19 = 12.50

or \$12.50

x0.25 1240 4960

4 of 42 0.50 4 of 484 0.62 11. The product of 2 decimals is 0.36. What might the decimals be? Find as many answers as you can.

Homework Solutions

$$4 \times 9 = 36$$
, $500.4 \times 0.9 = 0.36$
 $2 \times 18 = 36$, $500.2 \times 1.8 = 0.36$
 $1 \times 36 = 36$, $500.1 \times 36 = 0.36$
 $3 \times 12 = 36$, $500.3 \times 12 = 0.36$

- 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

(v) 0.18×0.12

Explain your strategies.

13. Take It Further

Homework Solutions

- a) Multiply.
 - i) 6.3×1.8
- ii) 0.37 × 0.26
- iii) 3.52 × 2.4
- (v) 1.234×0.9
- b) Look at the questions and products in part a. What patterns do you see in the numbers of decimal places in the question and the product? How could you use this pattern to place the decimal point
- in a product without estimating?

 c) Multiply: 2.6 × 3.5

 Does the pattern from part b hold true?

 If your answer is no explain why not.

$$7) 12.7 + 0.25$$

³5**4**.7

<u>x 8</u>

4376



Quiz Tomorrow

Worksheet - Multiply Decimals 11& 12

Then Gr 7 Math Review on Decimals 2

The Gr 7 Math Review on Decimals3

Grade 7 Math Review on Decimals 2_ Thursday.docx

Grade 7 Math Review on Decimals $3_$ Friday.docx