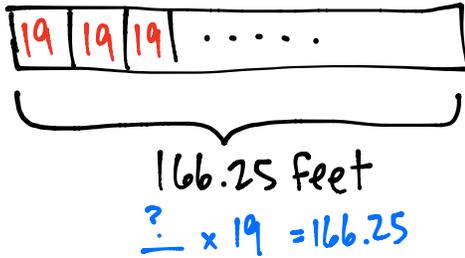Name _____     Date _____

1. Mr. Rice needs to replace the 166.25 ft of edging on the flower beds in his backyard. The edging is sold in length of 19 ft each. How many lengths of edging will he need to purchase?

| 19 | 19 | 19 | · · · · · |

166.25 feet

? × 19 = 166.25

$$\begin{array}{r} 8.75 \\ 19\overline{)166.25} \\ -152 \\ \hline 142 \\ -133 \\ \hline 95 \\ -95 \\ \hline 0 \end{array}$$

He will need to buy 9 lengths.

2. Olivia is making granola bars and will use 17.9 oz of pistachios, 12.6 oz of almonds, 12.5 oz of sunflower seeds, and 12.5 oz of cashews. This amount makes 25 bars. What is the total amount of nuts in each bar?

$$\begin{array}{r} 17.9 \\ 12.6 \\ 12.5 \\ +\ 12.5 \\ \hline 55.5 \end{array}$$

$$\begin{array}{r} 2.22 \\ 25\overline{)55.50} \\ -50 \\ \hline 55 \\ -50 \\ \hline 50 \\ -50 \\ \hline 0 \end{array}$$

There are 2.22 ounces in each bar.

3. Adam has 16.45 kg of flour and he uses 6.4 kg to make hot cross buns. The remaining flour is exactly enough to make 15 batches of scones. How much flour will be in each batch?

$$\begin{array}{r} 16.45 \\ -\ 6.4 \\ \hline 10.05 \end{array}$$

$$\begin{array}{r} .67 \\ 15\overline{)10.05} \\ -90 \\ \hline 105 \\ -105 \\ \hline 0 \end{array}$$

There is 0.67 kg of flour in each batch.

4. There are 90 fifth grade students going on a field trip.  Each one pays the teacher $9.25 to cover admission to the theater and lunch.  Admission for the students will cost $315 and each one gets and equal amount to spend on lunch.  How much will each fifth grader be able to spend on lunch?

$$\begin{array}{r} 9.25 \\ \times\ 90 \\ \hline 832.50 \end{array}$$

$$\begin{array}{r} 832.50 \\ -315.00 \\ \hline 517.50 \end{array}$$

$$\begin{array}{r} 5.75 \\ 90\overline{)517.50} \\ \underline{450} \\ 675 \\ \underline{630} \\ 450 \\ \underline{-450} \\ 0 \end{array}$$

Each student gets $5.75 for lunch.

5. Ben is making math manipulatives to sell.  He needs to make at least $450.  Each manipulative costs $18 to make.  He is selling them for $30 each.  What is the minimum number he can sell to reach his goal?

$$\begin{array}{r} 30 \\ -18 \\ \hline 12 \end{array}$$

$12 profit on each item

$$\begin{array}{r} 37.5 \\ 12\overline{)450.0} \\ \underline{-36} \\ 90 \\ \underline{-84} \\ 60 \\ \underline{-60} \\ 0 \end{array}$$

He will need to sell 38 manipulatives

**Lesson 28:** Solve division word problems involving multi-digit division with group size unknown and the number of groups unknown.

**Date:** 7/4/13

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