

Complete the following problems to review this unit. You must show all work to receive credit!

- 1) Explain what it means if you are asked to solve the problem

$$\frac{3}{5} \div \frac{1}{5}$$

This problem is finding out how many groups of $\frac{1}{5}$ fit inside of $\frac{3}{5}$.

- 2) Find the greatest common factor of 30 and 48.

$$\begin{array}{r|rr} 2 & 30 & 48 \\ 3 & 15 & 24 \\ & 5 & 8 \end{array}$$

$$2 \cdot 3 = 6$$

6 is the GCF of 30 + 48

- 3) Find the least common multiple of 10 and 6.

$$\begin{array}{r|rr} 2 & 10 & 6 \\ \times 5 & & \times 3 \end{array} = 30$$

30 is the LCM of 10 + 6

- 4) $3 \overline{)9,537}$

$$\begin{array}{r} 3179 \\ 3 \overline{)9,537} \\ \underline{-9} \\ 05 \\ \underline{-3} \\ 23 \\ \underline{-21} \\ 27 \\ \underline{-27} \\ 0 \end{array}$$

- 5) $13.12 + 6 + 7.1$

$$\begin{array}{r} 13.12 \\ + 6.00 \\ + 7.10 \\ \hline 26.22 \end{array}$$

$$\begin{array}{r} 1.25 \\ \times 2.3 \\ \hline 375 \\ + 2500 \\ \hline 2.875 \end{array}$$

$$\begin{array}{r} 72 - 1.68 = \\ 1910 \\ 72.00 \\ - 1.68 \\ \hline 70.32 \end{array}$$

$$\frac{5}{7} \div \frac{10}{1} = \frac{5}{7} \cdot \frac{1}{10} = \frac{1}{14}$$

$$9) 5\frac{1}{2} \div 2\frac{1}{2} =$$

$$\frac{11}{2} \div \frac{5}{2} = \frac{11}{5} = 2\frac{1}{5}$$

- 10) Talia waters her plants every 4 days. She trims them every 10 days. She did both today. In how many days will she do both again?

Water: 4, 8, 12, 16, 20, 24...

Trim: 10, 20

- 11) A quarterback practiced for $28\frac{1}{2}$ hours in 4 weeks. How many hours did he practice per week?

$$28\frac{1}{2} \div 4$$

$$\frac{57}{2} \div \frac{4}{1}$$

$$\frac{57}{2} \cdot \frac{1}{4} = \frac{57}{8} = 7\frac{1}{8}$$

$$1.2 \overline{) 5.94} \rightarrow 12 \overline{) 50.4} \quad \text{\$4.20}$$

$$\begin{array}{r} 4.2 \\ -48 \downarrow \\ \hline 24 \\ -24 \\ \hline 0 \end{array}$$

- 13) Hot dogs are sold in packages of 8 and hot dog buns are sold in packages of 10. What is the fewest number of hot dogs that can be made (hot dog + bun)? What is the least number of packages of each that can be bought to make hot dogs (one hot dog and one bun) with no hot dogs or buns left over?

total number of hot dogs 40
 packs of hot dogs 5
 packs of buns 4

$$2 \overline{) 8 \ 10} \\ \underline{4 \ 5}$$

- 14) A book shelf is $3 \frac{1}{4}$ feet long. How many $\frac{3}{8}$ -inch books will fit on the shelf?

$$3 \frac{1}{4} \div \frac{3}{8} \rightarrow \frac{13}{4} \cdot \frac{8}{3} = \frac{26}{3} = 8 \frac{2}{3}$$

$$\frac{13}{4} \div \frac{3}{8}$$

Only 8 books will fit.

- 15) Carts on the Scream Machine roller coaster can hold 18 people at a time. If 3,067 people rode the roller coaster on Saturday, what is the fewest number of times the cart must have run?

$$18 \overline{) 3067} \quad \frac{7}{18}$$

$$\begin{array}{r} 171 \\ -18 \downarrow \\ \hline 126 \\ -126 \downarrow \\ \hline 07 \end{array}$$

It had to go at least 18 times for all to ride.

are \$0.58 each. She wants to spend the remaining money on pencils that are \$0.05 each. How many pencils can she purchase?

$$\begin{array}{r} 2.910 \\ \cancel{2.00} \\ \hline .58 \\ \times 3 \\ \hline 1.74 \end{array}$$

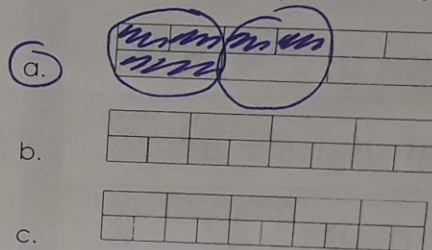
$$\begin{array}{r} 2.910 \\ \cancel{2.00} \\ \hline .58 \\ -1.74 \\ \hline 1.26 \end{array}$$

$$25 \overline{) 1.26} \rightarrow 5 \overline{) 126}$$

$$\begin{array}{r} 25 \\ -10 \downarrow \\ \hline 26 \\ -25 \\ \hline 1 \end{array}$$

She could purchase 25 pencils

- 17) Chesney is cutting a roll of cookie dough into pieces that are $\frac{1}{3}$ inch thick, if the roll of cookie dough is $\frac{4}{6}$ inches long, which model best represents the situation?



$$\frac{4}{6} \div \frac{1}{3} = 2$$

(Should be shaded but didn't copy well.)

- 18) Jaylen made \$154 in 3.5 hours. India made \$127.50 in 3 hours.

a. Who makes more in 1 hour? Jaylen

b. How much more would that person make if both people work for 10 hours? \$15

$$35 \overline{) 154} \quad \text{Jaylen makes } \$44 \text{ per hr.}$$

$$\begin{array}{r} 44 \\ -140 \downarrow \\ \hline 140 \\ -140 \\ \hline 0 \end{array}$$

$$3 \overline{) 127.50} \quad \text{India makes } \$42.50 \text{ per hr.}$$

$$\begin{array}{r} 42.50 \\ -126 \downarrow \\ \hline 0750 \\ -675 \downarrow \\ \hline 0750 \\ -750 \downarrow \\ \hline 0000 \end{array}$$

$$\text{Jaylen} - 44 \cdot 10 = \$440$$

$$\text{India} - 42.50 \cdot 10 = \$425$$