EMA
Fraction Application and Matrices Review

Name Nomani

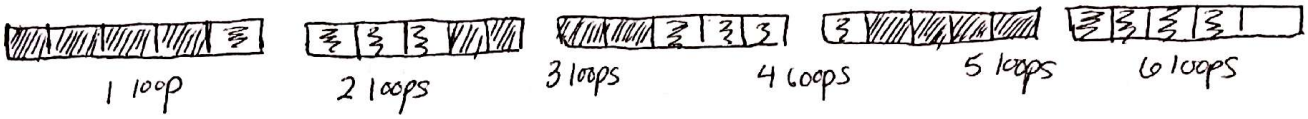
1.) Dean bought a $1\frac{1}{2}\,lb$ bag of pens and pencils for his EMA classes, where $\frac{3}{7}$ of it was pens.

(A) How much of the bag are pencils? 4/7

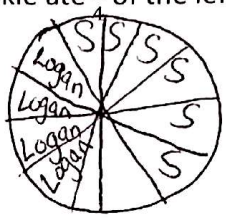
(B) How many pounds of pencils were in the bag? 6/7

$1\frac{1}{2} \cdot \frac{4}{7} \rightarrow \frac{3}{2} \cdot \frac{4}{7} = \frac{12}{14} = \frac{6}{7}$

2.) Luke had 5 yards of string. He needs $\frac{4}{5}$ of a yard to make a loop for his yo-yo. How many loops can he make for his yo-yo? 6 loops



3.) Logan ate $\frac{1}{3}$ of a medium cheese pizza. Sookie ate $\frac{3}{4}$ of the leftover pizza. How much of a whole pizza did Sookie eat? LCD: 12



$\frac{6}{12} = \frac{1}{2}$

4.) Rory and 3 of her friends made brownies.

- Lorelei ate $\frac{5}{16}$ of it. $\frac{5}{16} \cdot 48 = 15$
- Rory ate $\frac{1}{3}$ of what was left. $\frac{1}{3} \cdot 33 = 11$
- Lane ate $\frac{1}{2}$ of what was left. $\frac{1}{2} \cdot 22 = 11$
- Paris ate the rest. 11

(A) How many total brownie pieces are there? 48

(B) How many pieces did each person eat?

Lorelei 15 ~~Lorelei~~ Rory 11 Lane 11 Paris 11

orange									
brown								red	
black							lt.green		
dk. green						magneta			
yellow					yellow				
blue									w
magenta			magenta					red	
lt. green		lt. green			red			red	
w	w	w	w	w	w	w	w	w	w
orange									

5.) Using the Cuisenaire Rods chart, left, answer the following questions.
Hint: Use the white pieces to help you

(A) Let the orange rod be the whole, magenta is what fraction of it? $\frac{8}{10} = 4/5$

(B) Let yellow rod be the whole, what color is $1\frac{1}{5}$ of it? dk. green

(C) Dark green is what fraction of the longest color? $\frac{6}{10} = 3/5$

(D) Let red rod be the whole, what color is $2\frac{1}{2}$ of it? yellow

(E) Let brown rod be the whole, what color is $\frac{3}{8}$ of it? lt. green

6.) A monkey has 75 peaches. Each day, he keeps a fractions of his peaches, giving the rest away and eating **one**. He tried to keep an account on leaves of how many he was keeping, but mixed them up! Here are the fractions of peaches he decided to *keep*:

$$\frac{1}{2} \quad \frac{1}{4} \quad \frac{3}{4} \quad \frac{3}{5} \quad \frac{5}{6} \quad \frac{11}{15}$$

In which order did he use the fractions so that he was left with just one peach at the end?

$75 \cdot \frac{11}{15} = 55$ kept $- 1$ ate $= 54$

$54 \cdot \frac{5}{6} = 45$ kept $- 1$ ate $= 44$

$44 \cdot \frac{3}{4} = 33$ kept $- 1$ ate $= 32$

$32 \cdot \frac{1}{2} = 16$ kept $- 1$ ate $= 15$

$15 \cdot \frac{3}{5} = 9$ kept $- 1$ ate $= 8$

$8 \cdot \frac{1}{4} = 2$ kept $- 1$ ate $= \boxed{1}$

$$\frac{11}{15}, \frac{5}{6}, \frac{3}{4}, \frac{1}{2}, \frac{3}{5}, \frac{1}{4}$$