## Bell Ringer

Financial Literacy Jamal is comparing prices of several different brands of peanuts.
 Which brand is the best buy? Explain. (Example 2)

	Peanuts	-
Brand	Size (oz)	Price 🧼
Barrel	10	\$3.39
Mr. Nut	14	\$4.54
Chip's	18	\$6.26

Barrel (\$3.39 / 10 = \$.34/oz ; Mr. Nut (\$4.54 / 14 = \$.32/oz ; Chip's (\$6.26 / 18 = \$.35/oz). Therefore, Mr. Nut is the cheapest.

2. Kelly drove 170 miles in 2.5 hours. If she maintains this same rate, how far will she drive in 4 hours?

272 miles

## Complex Fractions and Unit Rates

Complex Fractions - are fractions that contain one or more fractions in the numerator or denominator.

Complex fractions must be simplified, which means the numerator and denominator must be integers.

## To simplify

- 1) Write the complex fraction as a division problem
- Change mixed numbers to improper fractions if needed
- Multiply by the reciprocal
- 4) Simplify

Simplify.

$$\frac{1}{5} \cdot \frac{7}{6} = \frac{7}{30}$$

3) Noah can walk 4 1/2 miles in 1 1/2 hours. What is his average speed in mph?

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

$$\frac{9}{2} \div \frac{3}{2}$$

$$\frac{3}{2} \cdot \frac{3}{2} = \frac{3mph}{3mi/lbr}$$

4) A bag of cat food contains 22 1/2 cups. The typical cat eats 3/4 cup of food per day. How many days will the bag last?

$$22\frac{1}{2} = \frac{3}{4}$$
 $\frac{45}{2} = \frac{3}{4}$ 
 $\frac{45}{2} = \frac{3}{4}$ 
 $\frac{3}{4} = 30$  days

## **Complex Percents**

- remember all percents are based out of 100
- complex percents can be changed to fractions
- 5) Write 10 2/3% as a fraction in simplest form.

$$\frac{10\frac{3}{3}}{100} = \frac{100}{3} = \frac{8}{75}$$