Agenda

- Warm up
- Assign Homework

Cornell Notes:
- Complex Fractions

Practice:
- Unit Rate review handout
- Complex Fractions handout

WARM UP

Write 3 equaivalent fractions for each ratio.

1) 12/18   **2) 7/9**

Find the rate.
3) 15 pages in 27 minutes;
   ___ pages in 50 minutes

4) Arrange the set of numbers to form a proportion.
   12, 21, 7, 4

<u>Complex Fractions-</u> are made up of a fraction within a fraction, in other words the numerator or denominator or both contain a fraction

Example 1: $\dfrac{3}{1/2}$ • The numerator is 3 and the denominator is 1/2.

Example 2: $\dfrac{3/7}{9}$ • The numerator is 3/7 and the denominator is 9.

Example 3: $\dfrac{1/4}{3/5}$ • The numerator is 1/4 and the denominator is 3/5.

To Solve

<u>Complex Fractions</u>- multiply the numerator by the reciprocal of the denominator. Then simplify the answer if needed.

Example 1: $\dfrac{3}{1/2}$ 3 x 2 = 6

Example 2: $\dfrac{3/7}{9}$ 3/7 x 1/9 = 3/63 = 1/21

Example 3: $\dfrac{1/4}{3/5}$ 1/4 x 5/3 = 5/12

WARM UP

Write 3 equaivalent fractions for each ratio.

1) 4/5   2) 10/26
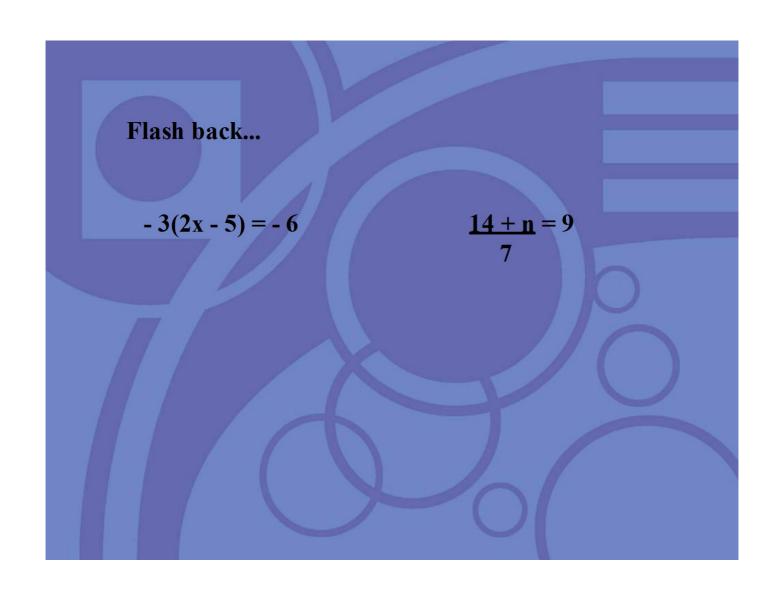
Find the rate.
3) 12 miles in 3 days;
   60 miles in ___ days

4) **Arrange the set of numbers to form a proportion.**
   2.5, 27, 5.7, 12.5

Problem Solving with Complex Fractions

Use the IPS strategy.

Example 1:
Samuel used 1/5 of an ounce of butter to make 1/25 of a pound of jelly. How many ounces of butter is there per pound of jelly?

Example 2:
Jacob used 1/7 of a liter of water to fill 1/9 of the fish aquarium. How many lieters are needed to fill the aquarium?
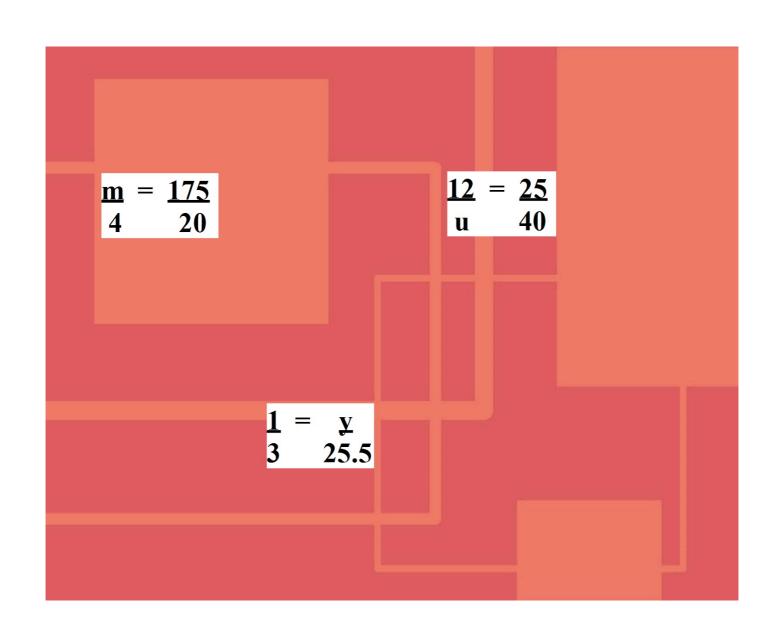
Flash back...

$-3(2x - 5) = -6$

$$\frac{14 + n}{7} = 9$$

$$\frac{15}{35} = \frac{s}{7}$$

$$\frac{3.6}{x} = \frac{7.5}{6.0}$$

$$\frac{24}{30} = \frac{8}{w}$$

Gail is making fruit punch that contains 2 quarts of juice and 1 quart of soda water. How much soda water does she need if she has 5 quarts of juice?

$$\frac{m}{4} = \frac{175}{20}$$

$$\frac{12}{u} = \frac{25}{40}$$

$$\frac{1}{3} = \frac{y}{25.5}$$

What's next?

https://learnzillion.com/lesson_plans/744
3-identifying-proportional-relationships-
by-examining-a-graph