

TUESDAY 12/12 7th GRADE MATH HOMEWORK

Lesson Summary

A number written in fraction form whose numerator or denominator is itself a fraction is called a *complex fraction*.

If a proportional relationship is given by a description such as, "A person walks $2\frac{1}{2}$ miles in $1\frac{1}{4}$ hours at a constant speed," then the unit rate is

$$\frac{2\frac{1}{2}}{1\frac{1}{4}} = \frac{\frac{5}{2}}{\frac{5}{4}} = \frac{5}{2} \cdot \frac{4}{5} = 2. \text{ The person walks 2 mph.}$$

Problem Set

1. Determine the quotient: $2\frac{4}{7} \div 1\frac{3}{6}$.
2. One lap around a dirt track is $\frac{1}{3}$ mile. It takes Bryce $\frac{1}{9}$ hour to ride one lap. What is Bryce's unit rate, in miles, around the track?
3. Mr. Gengel wants to make a shelf with boards that are $1\frac{1}{3}$ feet long. If he has an 18-foot board, how many pieces can he cut from the big board?
4. The local bakery uses 1.75 cups of flour in each batch of cookies. The bakery used 5.25 cups of flour this morning.
 - a. How many batches of cookies did the bakery make?
 - b. If there are 5 dozen cookies in each batch, how many cookies did the bakery make?
5. Jason eats 10 ounces of candy in 5 days.
 - a. How many pounds does he eat per day? (Recall: 16 ounces = 1 pound)
 - b. How long will it take Jason to eat 1 pound of candy?