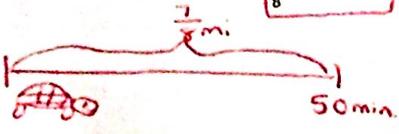


Example 2

A turtle walks $\frac{7}{8}$ of a mile in 50 minutes. What is the unit rate expressed in miles per hour?



- Find miles per minute FIRST
- 60 min = 1 hr

YOUR TURN

$$\frac{\frac{7}{8} \text{ mi} \div 50}{50 \text{ min} \div 50} = \frac{0.0175}{1 \text{ min}} \times 60 = \frac{1.05 \text{ mi}}{60 \text{ min} / 1 \text{ h}}$$

$$\frac{7}{8} \div \frac{50}{1}$$

$$\frac{7}{8} \times \frac{1}{50} = \frac{7}{400} = 0.0175$$

7) Izzy ran $6\frac{3}{4}$ miles in 45 minutes. Julia ran $3\frac{3}{4}$ miles in 25 minutes. Who ran at a faster pace?

- Find miles per minute for Izzy + Julia.

Izzy

$$\frac{6\frac{3}{4} \text{ mi} \div 45}{45 \text{ min} \div 45} = \frac{0.15 \text{ mi}}{1 \text{ min}}$$

$$6\frac{3}{4} \div \frac{45}{1}$$

$$\frac{27}{4} \div \frac{45}{1}$$

$$\frac{27}{4} \times \frac{1}{45}$$

$$\frac{27}{180} = 0.15$$

Julia

$$\frac{3\frac{3}{4} \text{ mi} \div 25}{25 \text{ min} \div 25} = \frac{0.15 \text{ mi}}{1 \text{ min}}$$

$$3\frac{3}{4} \div \frac{25}{1}$$

$$\frac{15}{4} \div \frac{25}{1}$$

$$\frac{15}{4} \times \frac{1}{25}$$

$$\frac{15}{100} = 0.15$$

* same pace

*2) For Anthony's birthday his mother is making cupcakes for his 12 friends. The recipe calls for $3\frac{1}{3}$ cups of flour. The recipe makes $2\frac{1}{2}$ dozen cupcakes. Anthony's mother only has 1 cup of flour. Is there enough flour for each of Anthony's friends to get a cupcake?

- Mother wants - Cupcakes for 12 / 1 dozen
- has - 1 cup of flour

- Recipe
 - $3\frac{1}{3}$ cups of flour
 - $2\frac{1}{2}$ dozen cc

→ Find cups per dozen.

$$\frac{3\frac{1}{3} \text{ cups} \div 2\frac{1}{2}}{2\frac{1}{2} \text{ doz} \div 2\frac{1}{2}} = \frac{1\frac{1}{3} \text{ cups}}{1 \text{ doz}}$$

$$3\frac{1}{3} \div 2\frac{1}{2}$$

$$\frac{10}{3} \div \frac{5}{2}$$

$$\frac{10}{3} \times \frac{2}{5}$$

$$\frac{20}{15} = \frac{4}{3} = 1\frac{1}{3}$$

* Anthony's mother does not have enough flour