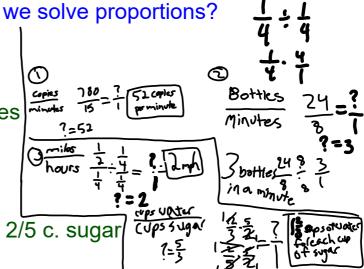
oth grade Fivi:	How do
Warm-up:	
Find the unit rate:	

- 1. 780 copies in 15 minutes
- 2. 24 bottles in 8 minutes
- 3. 1/2 miles in 1/4 hour
- 4. 2/3 cups water for each 2/5 c. sugar



How do we solve proportions?

A proportion is an equation that states two ratios are equivalent. a c

 $\frac{a}{b} = \frac{c}{d}$

To solve a proportion:

- 1. Simplify your original ratio *
- 2. Multiply or divide by 1 to find a new ratio

Ex 1:
$$\frac{5}{6} = \frac{x}{18}$$

Ex 3:
$$\frac{c}{12} = \frac{2}{8}$$

$$\frac{c}{12} = \frac{1}{4}$$

$$c = 3$$

Ex 2:
$$\frac{m}{2} = \frac{20}{10}$$

$$\boxed{m=4}$$

Ex 4:
$$\frac{16}{18} = \frac{80}{k} \begin{cases} \frac{8}{9} = \frac{80}{5} \\ \frac{8}{9} = \frac{80}{5} \end{cases}$$

$$K = 90 \begin{cases} \frac{8}{9} = \frac{80}{5} \\ \frac{8}{9} = \frac{80}{5} \end{cases}$$

Ex 5: Mr. Thomas' class has 3 girls for every 4 boys. If his class has 16 boys, how many girls does it have?

g;rls 3 5 9

boys 4 5 16

boys
$$\frac{3}{4} = \frac{9}{16}$$
 $9 = 12$

9=#of g=12 Mr. Thomas class has 12 girls.

Ex 6: A machine makes toy cars at the rate of 120 cars per hour. How many toy cars will it make in 8 minutes?

$$\frac{\text{cars}}{\text{hours}} \frac{120}{+60} = \frac{C}{8}$$

C=oftoy
$$\frac{2}{1}$$
 $\frac{2}{8}$ $\frac{2}{8}$ $\frac{2}{1}$ $\frac{2}{1$

The machine can make 16 toy cars in 8 minutes.