\*Learning Target:

\*Critical Content:

Ratio –

Proportion –

Ex1: Determine whether $\frac{2}{3}$ and $\frac{16}{24}$ are equivalent ratios.

Means Extremes Property of Proportions:

In a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is equal to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

-If the \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are equal, then the ratios form a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Ex2: Use cross products to determine whether each pair of ratios forms a proportion.

a) $\frac{2}{3.5},\frac{8}{14}$ b) $\frac{0.3}{1.5},\frac{0.5}{2.0}$ 2a) $\frac{0.2}{1.8},\frac{1}{0.9}$

-We can also solve proportions using \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Ex3: Solve each proportion.

a) $\frac{x}{10}=\frac{3}{5}$ b) $\frac{x-2}{14}=\frac{2}{7}$ 3a) $\frac{r}{8}=\frac{25}{40}$

Rate –

Unit Rate –

Ex4: In the last 2 years, a retailer has opened 232 stores. How many stores will they open in the next 3 years?

Scale –

Ex5: A trail is about 1 and 1/8 inches long on a map with a scale of 3in = 10 miles. What is the actual length of the trail?

Ex5: On a model airplane, the scale is 5cm = 2 meters. If the model’s wingspan is 28.5cm, what is the actual wingspan of the airplane?