Name_____ Date_____

Mrs. Roumbos 8R Period_____

Do Now

☆ The **slope** of a line shows how the change in one variable relates to the change in the other variable.

$$\text{Slope} = \frac{\text{change in } y}{\text{change in } x}$$

☆ Slope is a constant since it is the same throughout a proportional relationship.

☆ Corresponding sides have same slopes

(1) Similar triangles *GHJ* and *KHL* are shown on the coordinate plane.

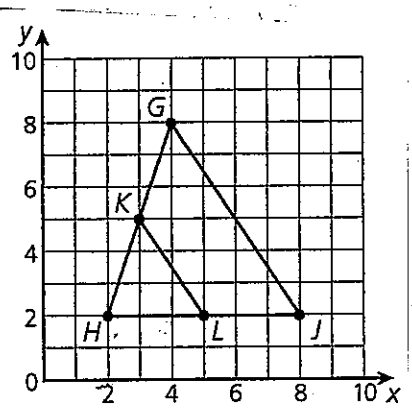
Which statement must be true of the slope of $\overline{GH}$?

**A** It is the same as the slope of $\overline{GJ}$.

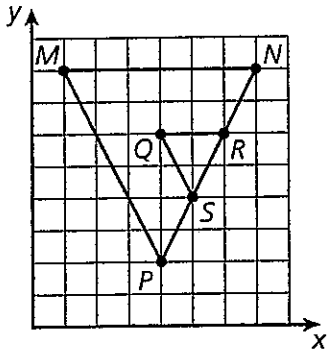
**B** It is the same as the slope of $\overline{KH}$.

**C** It is twice the slope of $\overline{GJ}$.

**D** It is twice the slope of $\overline{KH}$.




(2) Triangle *MNP* is similar to triangle *QRS*.




Which sides have the same slope?

**A** $\overline{MP}$ and $\overline{QS}$ **C** $\overline{QR}$ and $\overline{QS}$

**B** $\overline{MP}$ and $\overline{NP}$ **D** $\overline{QR}$ and $\overline{NP}$

(3) Triangles *CDE* and *CFG* are similar, as shown here.

Explain why the slope of $\overline{CE}$ is the same as the slope of $\overline{CG}$.