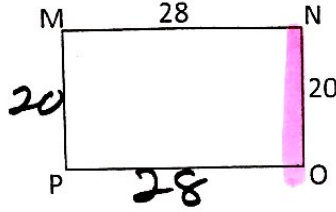
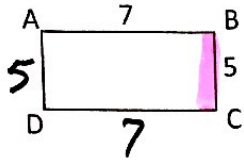


Name: _____

Perimeter Ratios Notes



1. Find the scale factor of rect ABCD to rect MNOP.

$$\frac{5}{20} = \boxed{\frac{1}{4}} \text{ SLR}$$

2. Find the perimeter of each rectangle.

rect ABCD = 24

rect MNOP = 96

↑
=

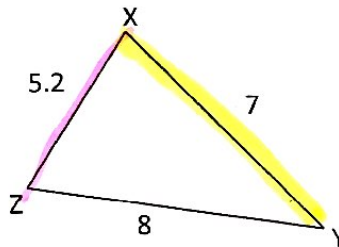
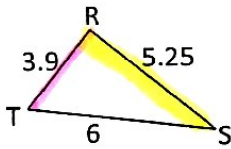
↓

3. What is the ratio of the perimeter ABCD to MNOP?

$$\frac{24}{96} = \boxed{\frac{1}{4}} \text{ perimeter ratio}$$

4. What do you notice about the ratios?

Same



$$\begin{aligned} \frac{3.9}{5.2} &= .75 \\ \frac{5.25}{7} &= .75 \\ \frac{6}{8} &= .75 \end{aligned} \text{ SLR}$$

5. Find the scale factor of ΔRST to ΔXYZ .

.75

6. Find the perimeter of each triangle.

$\Delta RST = \underline{15.15}$

$\Delta XYZ = \underline{20.2}$

$$\frac{15.15}{20.2} = \boxed{.75} \text{ P.R.}$$

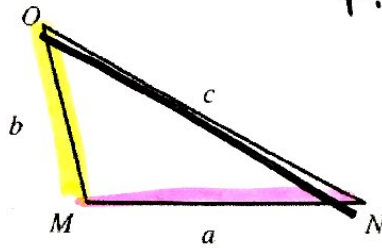
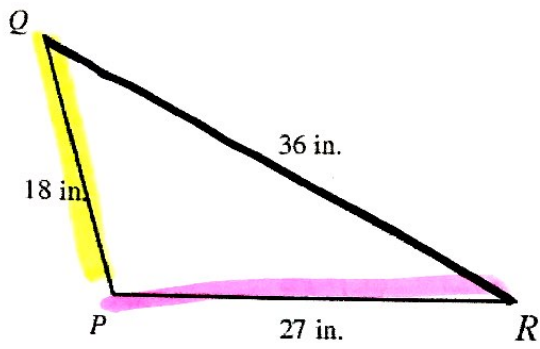
7. What is the ratio of the perimeter ΔRST to ΔXYZ ?



8. What do you notice about the ratios?

Same ~~as SLR~~

9. Find a , b , & c , if $\triangle PQR \sim \triangle MON$ and the perimeter of $\triangle MNO$ is 63 inches.



$$P.R. = \frac{81}{63} = \frac{9}{7}$$

$$p = 63$$

$$P = 81$$

$$\frac{9}{7} = \frac{27}{a}$$

$$\frac{9}{7} = \frac{18}{b}$$

$$\frac{9}{7} = \frac{36}{c}$$

10. Find the perimeter of the larger pentagon if the two pentagons are similar.

