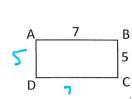
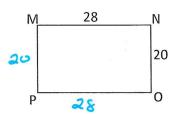
Key

7.5 Similar Figures and Perimeter





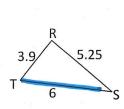
1. Find the scale factor of rect ABCD to rect MNOP.

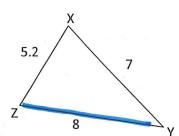
2. Find the perimeter of each rectangle.

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

$$\frac{24}{96} = .25 = \frac{1}{4}$$

4. What do you notice about the ratios?





5. Find the scale factor of Δ RST to Δ XYZ.

6. Find the perimeter of each triangle.

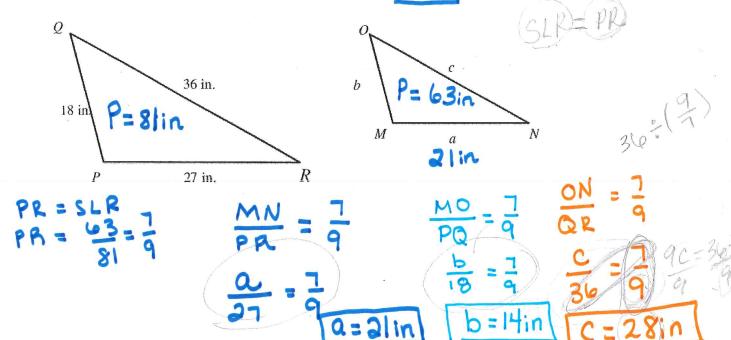
7. What is the ratio of the perimeter ΔRST to ΔXYZ?

8. What do you notice about the ratios?

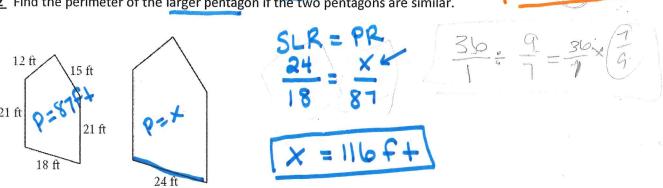


Ratio of Perimeters:

Ex1 Find a, b, & c, if $\Delta PQR \sim \Delta MON$ and the perimeter of ΔMNO is 63 inches.



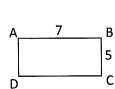
Ex 2 Find the perimeter of the larger pentagon if the two pentagons are similar.

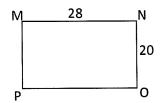


Do pg. 410 #1,2, 8-10, 12,13



7.5 Similar Figures and Perimeter



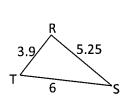


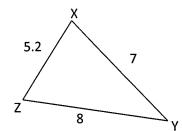
- 1. Find the scale factor of rect ABCD to rect MNOP.
- 2. Find the perimeter of each rectangle.

rect ABCD=____

rect MNOP=_____

- 3. What is the ratio of the perimeter ABCD to MNOP?
- 4. What do you notice about the ratios?





- 5. Find the scale factor of Δ RST to Δ XYZ.
- 6. Find the perimeter of each triangle.

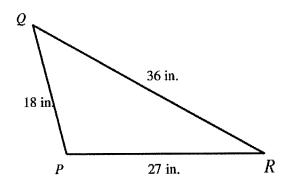
ARST=

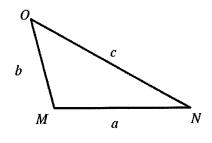
ΔΧΥΖ_____

- 7. What is the ratio of the perimeter Δ RST to Δ XYZ?
- 8. What do you notice about the ratios?

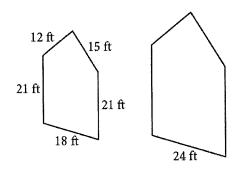
Ratio of Perimeters:

Ex1 Find a, b, & c, if $\Delta PQR \sim \Delta MON$ and the perimeter of ΔMNO is 63 inches.





Ex 2 Find the perimeter of the larger pentagon if the two pentagons are similar.



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