Practice #16

Geo

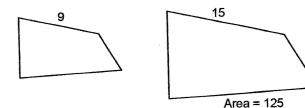
Sec 10-4

Thursday, April 16, 2020

- 1. The Similarity Ratio of two similar figures is $\frac{8}{5}$
- a) State the ratio of the perimeters of these figures:
- b) State the ratio of the areas of these figures:
- 2. 1. The ratio of the Areas of two similar figures is $\frac{81}{121}$
- a) State the Simitarity Ratio of these figures:
- b) State the ratio of the perimeters of these figures:

For 3-5 round to the nearest hundredth as needed.

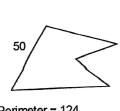
3. These two figures are similar.



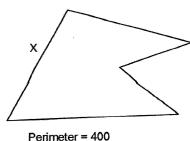
a) State the Similarity Ratio:

b) Find the Area of the smaller figure.

4. These two figures are similar.



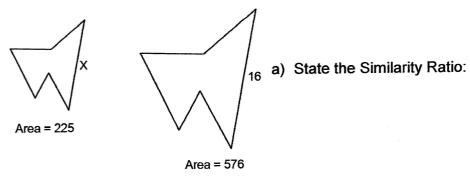
Perimeter = 124



a) State the Similarity Ratio:

b) Find the value of x.

5. These two figures are similar.



b) Find the value of x.



- 1. The Similarity Ratio of two similar figures is $\frac{8}{5}$
- a) State the ratio of the perimeters of these figures: ratio of perim = sim Ratio
- b) State the ratio of the areas of these figures:



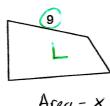
- ratio of areas = (sim Ratio)2
- 2. 1. The ratio of the Areas of two similar figures is $\frac{81}{121}$

a) State the Simitarity Ratio of these figures:

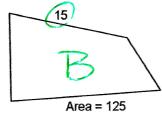
b) State the ratio of the perimeters of these figures:

For 3-5 round to the nearest hundredth as needed.

These two figures are similar.



Area = X



a) State the Similarity Ratio;



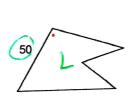
b) Find the Area of the smaller figure.

ind the Area of the smaller figure.

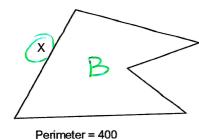
Fatio of Areas =
$$(\sin ratio)^2$$

$$\frac{125}{X} = (\frac{15}{9})^2 \longrightarrow \frac{125}{X} = \frac{225}{81} \longrightarrow X = 45$$

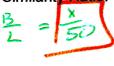
4. These two figures are similar.



Perimeter = 124



a) State the Similarity Ratio:



b) Find the value of x.

the value of x.

ratio of perimeters = sim ratio

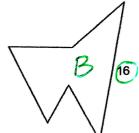
$$\frac{400}{124} = \frac{x}{50}$$

$$x = 161.29$$

5. These two figures are similar.



Area = 225



(6) State the Similarity Ratio:
$$\frac{B}{L} = \frac{16}{X}$$

Area = 576

b) Find the value of x.

sim ratio = Tratio of the treas =
$$\sqrt{\frac{576}{225}} = \frac{24}{15}$$

$$\frac{16}{X} = \frac{24}{15}$$