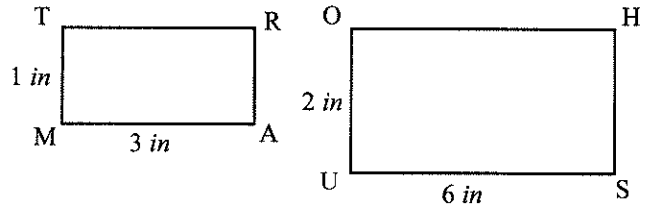


Lesson 10T ~ Special Ratios for Similar Figures

Name _____ Period _____ Date _____

Rectangle TRAM is similar to rectangle OHSU.

1. Find the scale factor.
2. Find the perimeter of each rectangle.



Perimeter of TRAM: _____ Perimeter of OHSU: _____

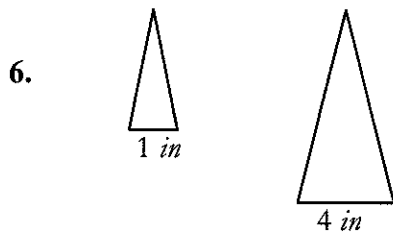
3. Find the **ratio of the perimeters** for TRAM to OHSU.
4. Find the area of each rectangle.

Area of TRAM: _____ Area of OHSU: _____

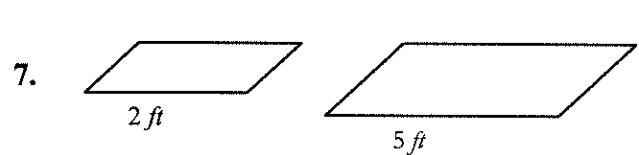
5. Find the **ratio of the areas** for TRAM to OHSU.

The two figures shown are similar. For each pair find

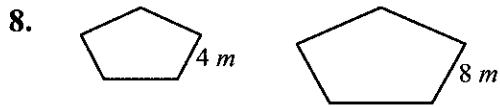
- a. the scale factor.
- b. the ratio of the perimeters.
- c. the ratio of the areas.



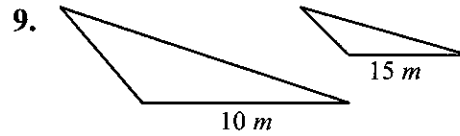
- a. Scale factor:
- b. Ratio of the perimeters:
- c. Ratio of the areas:



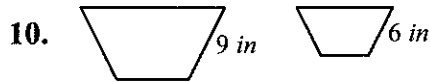
- a. Scale factor:
- b. Ratio of the perimeters:
- c. Ratio of the areas:



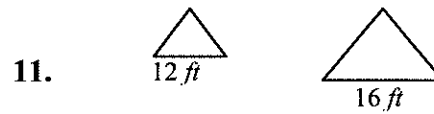
- Scale factor:
- Ratio of the perimeters:
- Ratio of the areas:



- Scale factor:
- Ratio of the perimeters:
- Ratio of the areas:



- Scale factor:
- Ratio of the perimeters:
- Ratio of the areas:



- Scale factor:
- Ratio of the perimeters:
- Ratio of the areas:

12. Given the similar figures to the right.



- Find the ratio of their perimeters.
- If the smaller hexagon has perimeter 8 m , find the perimeter of the larger hexagon.
- Find the ratio of their areas.
- If the larger hexagon has area 16 m^2 , find the area of the smaller hexagon.