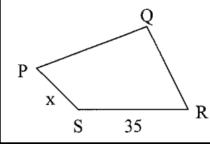
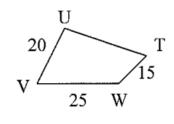
## Main Ideas/ Questions Examples

## **Notes**

4. Given ☐ PQRS ~ ☐ TUVW.

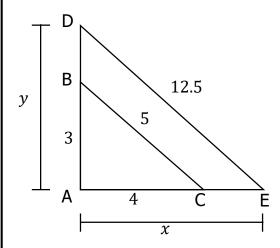
Write a proportion to find the length of  $\overline{PS}$ .





5. Given ΔABC~ ΔADE.

Solve for x and y.



Word Problem Examples

6. Sam went to Walgreens to enlarge a picture. Currently, his picture is a  $4'' \times 6''$ . He wants his new picture to be a  $10'' \times 15''$ . What scale factor does he need to use on his original?

7. Sally is standing next to a building and notices her shadow is 10 ft long. If the building's shadow is 100 ft long and she is 5.5 ft tall, how tall is the building?

<b>Topic:</b>	Similar	Figures
Mai	n Tdon	_ /

## Date:

**Notes** Ouestions

8. Chris wants to reduce a triangular pattern for the quilt he is making. His current pattern sides are 16, 16, and 20 cm. If the longest side of the new pattern is to be 15 cm, how long should the other two sides be?

9. A 36-inch yardstick casts a 21-foot shadow, how tall is a building whose

shadow is 168 feet?

10. A model house has a scale of 1 in : 2 ft. If the real house is 26 ft. wide,

then how wide is the model house?

**B**. How did the **perimeter** change?

to the big rectangle?

**A**. What is the **scale factor** from the small rectangle

21

3

6

2 **C**. How did the **area** change?

does the scale factor help you solve for missing sides of similar figures?

**Summary** 

Scale Factor Extension

Summarize the

lesson in your own words with the help of the guided questions.

4

What important characteristics do similar figures have in common? How