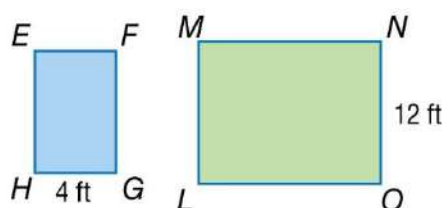


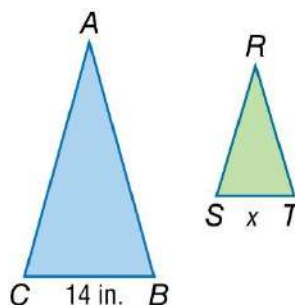
Areas of Similar Polygons

Picture	Equation/ Words

- 1) Find the area of LMNO given $EFGH \sim LMNO$ and area of EFGH is 24 ft^2



- 2) The area of $\triangle ABC$ is 98 sq in. The area of $\triangle RTS$ is 50 sq in. If $\triangle ABC \sim \triangle RTS$, find the scale factor from $\triangle ABC$ to $\triangle RTS$ and the value of x .



- 3) **CRAFTS** Use the information at the left. Orlando and Mia are making a scale model of the Pentagon. If the area of the base of their model is approximately 50 square inches, about how many times the length of each outer wall of the Pentagon is the length of the outer wall of the model?

The Pentagon building, including its center courtyard, occupies approximately 34 acres or 1,481,000 square feet of land. Each outer wall of the regular pentagonal building is 921 feet in length.

Source: U.S. Department of Defense