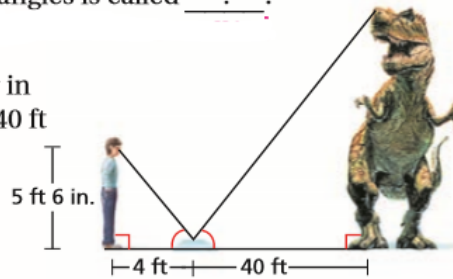


1. **Vocabulary** Finding distances using similar triangles is called ?.
(indirect measurement or scale drawing)

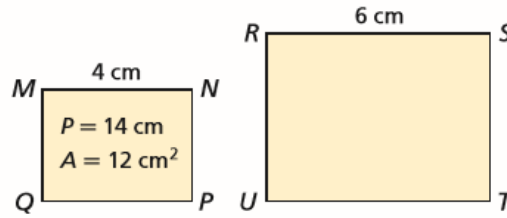
2. **Measurement** To find the height of a dinosaur in a museum, Amir placed a mirror on the ground 40 ft from its base. Then he stepped back 4 ft so that he could see the top of the dinosaur in the mirror. Amir's eyes were approximately 5 ft 6 in. above the ground. What is the height of the dinosaur?



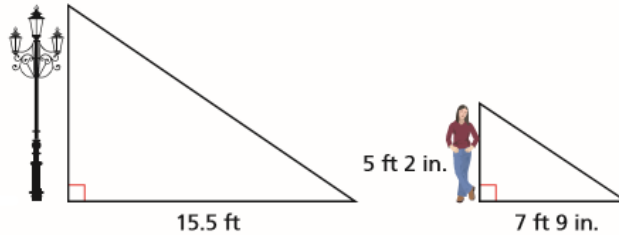
Given: rectangle $MNPQ \sim$ rectangle $RSTU$

10. Find the perimeter of rectangle $RSTU$.

11. Find the area of rectangle $RSTU$.



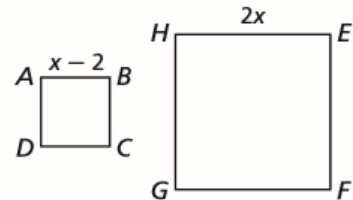
12. **Measurement** Jenny is 5 ft 2 in. tall. To find the height of a light pole, she measured her shadow and the pole's shadow. What is the height of the pole?



32. **Estimation** The photo shows a person who is 5 ft 1 in. tall standing by a statue in Jamestown, North Dakota. Estimate the actual height of the head of the statue by using a ruler to measure her height and the height of the head of the statue in the photo.

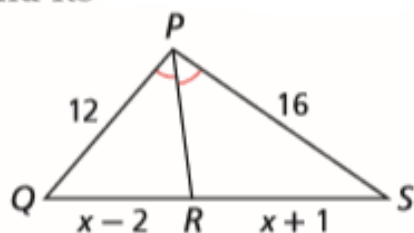


36. The ratio of the perimeter of square $ABCD$ to the perimeter of square $EFGH$ is $\frac{4}{9}$. Find the side lengths of each square.

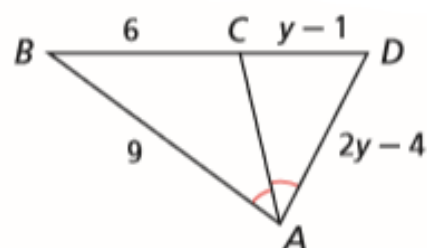


Find the length of each segment.

6. \overline{QR} and \overline{RS}

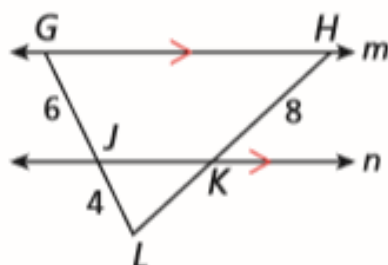


7. \overline{CD} and \overline{AD}

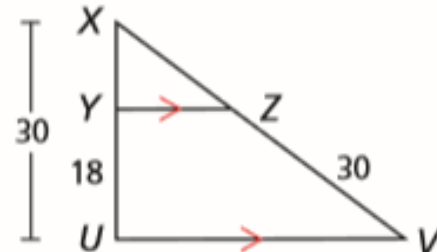


Find the length of each segment.

8. \overline{KL}

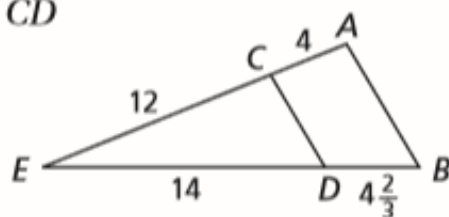


9. \overline{XZ}

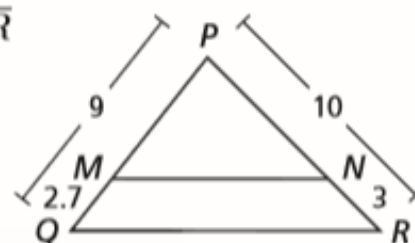


Verify that the given segments are parallel.

10. \overline{AB} and \overline{CD}

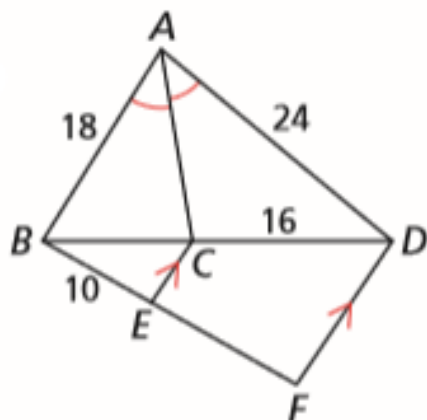


11. \overline{MN} and \overline{QR}



Find the length of each segment.

26. \overline{EF}



27. \overline{ST}

