## Applications of Similar Triangles

## Using Shadows to Find Heights

Suppose you want to use the shadow method to estimate the height of a building. You make the following measurements:

- length of the stick: 3 m
- length of the stick's shadow: 1.5 m
- length of the building's shadow: 8 m



## Using Mirrors to Find Heights

Jim wants to find the height of the traffic light.


These angles are congruent because light reflects off a mirror at the same angle it arrives.

