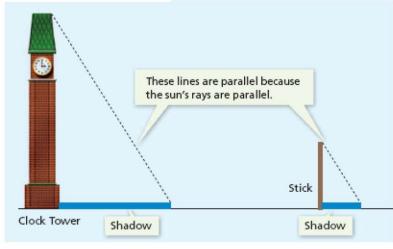
## Applications of Similar Triangles

## **Using Shadows to Find Heights**

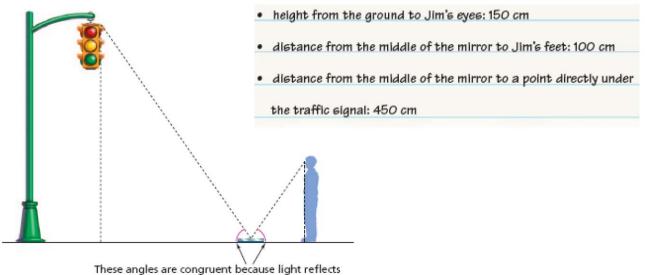
Suppose you want to use the shadow method to estimate the height of a building. You make the following measurements:

- 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.



off a mirror at the same angle it arrives.