1. Use similar triangles to find the height of the building.

2. A lamppost casts a shadow that is 15 yd long. A 3-foot-tall mailbox casts a shadow that is 5 yd long. How tall is the lamppost?
3. A building casts a shadow that is 420 m long. At the same time, a person who is 2 m tall casts a shadow that is 24 m long. How tall is the building?
4. A pole casts a shadow that is 21 ft long. A 3-feet-tall child standing next to the pole casts a shadow that is 9 ft long. How tall is the pole?
5. Use similar triangles to find the height of the tree.

6. An 8 -foot-tall statue stands in the park and casts a shadow that is 16 ft long. A dog stands next to it and is 3 ft tall. How long is the dog's shadow?
7. On a sunny day around noon, a tree casts a shadow that is 12 ft long. At the same time, a person who is 6 ft tall standing beside the tree casts a shadow that is 2 feet long. How tall is the tree?
8. Jeremy has two trophies next to each other sitting in the window of his room. His football trophy is 7 in . tall and his basketball trophy is 13 in . tall. As the light shines in, the basketball trophy's shadow measures 26 in . How long is the football trophy's shadow?
