

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**BLM 1.4.2**

## **Investigate: Find the Height of Your School's Flagpole**

1. Measure the length of the shadow of your school's flagpole.
2. Hold a metre or yardstick at right angles to the ground. Have a member of the group measure the length of the shadow cast by the metre or yardstick.
3. Sketch and label a diagram. Include triangles showing the locations of the objects and their shadows.
4. Explain why the two triangles are similar.
5. Calculate the height of the flagpole. Show your work.