

Indirect Measurement Activity 1

Group members: Record Official: _____

Sight Official: _____

Measurement Official: _____

1. Draw a diagram showing how you could use a mirror to measure the height of the classroom indirectly.

2. Explain why you know that these two triangles in your diagram are similar.

3. Which measurements do you need in order to determine the height of the classroom indirectly?

4. Obtain these measurements and then label a new diagram below.

6. Solve for the height of the classroom.

Part 2 (rotate roles from part 1)

7. Pick another item to measure indirectly, you can pick an item in the hallway but you must get permission before leaving the room. Sketch your plan below and label the parts that need to be measured.

8. Mark your measurements on your diagram and solve for the height of the item you chose.

Part 3 (rotate roles from part 2)

9. Pick a third item to measure indirectly, you can pick an item in the hallway but you must get permission before leaving the room. Sketch your plan below and label the parts that need to be measured.

10. Mark your measurements on your diagram and solve for the height of the item you chose.