



# Measuring Heights

## How High(far) is it?

Your task is to measure the height of as many of the objects listed below indirectly (without climbing to the top – use trigonometry and similarity). You will have a given amount of time, and you must verify each measurement with a labeled drawing and supporting work. Everything that you need to do several types of indirect measurement will be provided for you.

You will receive points as follows:

- Measure a height correctly and show proof: 1 pt.
- Measure the same object a different way: 2 pt.
- Or, use the mirror and similarity to measure the object: 3 pt.

Here are some objects you can measure (use Centimeters):

- Height of Flag pole - Height of gym - Height of Football goal post
- Height of the telephone pole by bike rack - Height of light by B-ball courts
- Height of tree to left of stairs - Distance between Goal posts (this one's tricky)

### Drawings and heights

1. Object: \_\_\_\_\_ Height: \_\_\_\_\_  
Drawing/work:

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2. Object: \_\_\_\_\_ Height: \_\_\_\_\_  
Drawing/work:

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3. Object: \_\_\_\_\_ Height: \_\_\_\_\_  
Drawing/work:



4. Object: \_\_\_\_\_ Height: \_\_\_\_\_  
Drawing/work:



5. Object: \_\_\_\_\_ Height: \_\_\_\_\_  
Drawing/work:

