Name:_		Date:	Period:
Unit 7 P	roject: Indirect Measurement		Show all Work!
Standar	d		
algeb	REI.A.1 Build functions and write expreora settings leading to a solution in contellems that can be solved using proportion	ext (e.g., rate and distance	-
Part 1 D	virections		
For e	each situation, complete the following:		
b c	 Draw a diagram that represents the sit Set up an equation that represents the Solve your equation. (8 points) State your answer in the context of ea points) 	situation. (5 points)	to include your units. (2
	Chuy is 6 feet tall and casts a 15-foot sha hadow. How tall is Diane?	dow. At the same time, I	Diane casts a 10-foot
tl	A 42-foot flagpole near the Washington Me same time, the Washington Monumers the Washington Monument?		_
3. A	A ramp slopes upward from the sidewalk	to the entrance of a build	ding at a constant

incline. If the ramp is 2 feet high when it is 5 feet from the sidewalk, how high is the

ramp when it is 7 feet from the sidewalk?

4.	The floorplan of a house is drawn to a scale of 1 in. : 5 ft. The actual dimensions of the family room are 20 feet by 24 feet. Assume the family room is a rectangle. What are the dimensions of the family room on the floorplan?
Pa	rt 2 Directions
5.	 Make your own word problem in which you would need to use indirect measurement. a. Create a well-constructed word problem in paragraph form that includes all pertinent information. (12 points) b. Construct a diagram illustrating the situation. (3 points) c. Provide the answer key for your problem. It should include an equation (proportion), solving steps and the answer with units. (5 points)