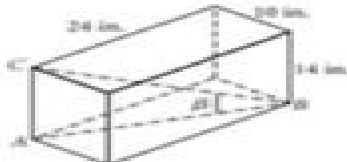


Name : _____

Trig Applications Activity

Questions

Area = _____ 	A flat 12 foot plank rests with one end on the ground and the other end upon a 4 foot ledge. What is the grade (angle of elevation) of the plank?
$d =$ _____ 	Jamie is 5' 8" tall. Find the length of her shadow if the angle of elevation of the sun is 30.2°
Right cone $\theta =$ _____ 	A 50 ft pole has a support wire that runs from its top to the ground with an angle of depression of 75°. How far from the base of the pole does the wire connect to the ground?
Right rectangular prism $m\angle ABC = \beta =$ _____ 	A building is 60 ft high. From a distance at point A on the ground, the angle of elevation to the top of the building is 40°. From a little nearer at point B, the angle of elevation is 70°. Find the distance from point A to point B.
Derek is in a hot air balloon that is 157 feet in the air. He spots a building on the ground that is 525 feet directly away from him. At what angle of depression is Derek looking down at the building?	**Challenge** - At a certain distance, the angle of elevation to the top of a building is 60°. From 40 feet further back, the angle of elevation is 45°. Find the height of the building.

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