Name :			
Sco	ore: Date:	MONKS	
	Word Problems on Right Triangle		
1	Anuj is flying a kite using a string of 250 meters. Which makes an angle of 60° with the ground. Assuming that the string is stretched out, find to the nearest foot, how high the kite is above the ground		
2	A ladder is 30ft long and needs to reach 27 ft up a building. What should the angle of the vertical be ?		
3	A tower casts a shadow that is 60 ft long when the angle of elevation of the sun is 65°. How tall is the tower ?		
4	You are standing 70ft from a hot air balloon that is preparing to take off. The angle of elevation to the top of the balloon is 28°. Find the height of the balloon.		
5	Tripti wants to measure the height of a tree. He walks almost 200 ft from the base of the tree and looks up. The angle from his eyes to the top of the tree is 35°. If his eye level is 5 feet from the ground, what is the height of the tree??	à	
6	A 80ft flag pole has a rope tied from the ground. The rope makes an angle of 45° with the ground. How long is the rope.		

Name :			
Sc	ore: Date:	M	
	Answers Word Problems on Right Triangle		
1	Anuj is flying a kite using a string of 250 meters. Which makes an angle of 60° with the ground. Assuming that the string is stretched out, find to the nearest foot, how high the kite is above the ground	2	
	125√3 meters		
2	A ladder is 30ft long and needs to reach 27 ft up a building. What should the angle of the vertical be ?		
	25.84°		
3	A tower casts a shadow that is 60 ft long when the angle of elevation of the sun is 65° How tall is the tower ?	•	
	128.67 ft		
4	You are standing 70ft from a hot air balloon that is preparing to take off. The angle of elevation to the top of the balloon is 28°. Find the height of the balloon.		
	26.59 meters		
5	Tripti wants to measure the height of a tree. He walks almost 200 ft from the base of the tree and looks up. The angle from his eyes to the top of the tree is 35°. If his eye level is 5 feet from the ground, what is the height of the tree??		
	75 ft		
6	A 80ft flag pole has a rope tied from the ground. The rope makes an angle of 45° with the ground. How long is the rope.		

113.13ft