				Name: Date:
1)	In a 45°-45°-90° triangle, the hypot	enuse is1	times as long as a leg.	
2)	 In a 30°-60°-90° triangle, the hypotenuse is as long as the sh times as long as the shorter leg. 			orter leg, and the longer leg is
Given the length of the legs, find the length of the hypotenuse of each 45°-45°-90° triangle.				
3)	8	 5√2 		5) 2√6
Given the length of the hypotenuse, find the length of the legs of each 45°-45°-90° triangle.				
6)	$6\sqrt{2}$	7) 10		8) $12\sqrt{3}$

Using the sides given, find the other two sides in each 30°-60°-90° triangle.

9) shorter leg: $8\sqrt{3}$ 10) hypotenuse: 14 11) longer leg: $\sqrt{6}$

Answer Key

- 1) $\sqrt{2}$
- 2) twice, $\sqrt{3}$
- 3) $8\sqrt{2}$
- 4) 10
- 5) $4\sqrt{3}$
- 6) 8
- 5√2
- 8) 6\sqrt{6}
- 9) hypotenuse = $16\sqrt{3}$, longer leg = 24
- 10) shorter leg = 7, longer leg = $7\sqrt{3}$
- 11) shorter leg = $\sqrt{2}$, longer leg = $2\sqrt{2}$