Name	Class	Date
Practice 1-6		Converse of the Pythagorean Theorem
Is it possible to construct a t	riangle with the given side length	ns? Explain.
1. 2 yd, 3 yd, 7 yd	2. 4 cm, 4 cm, 8 cm	3. 12 ft, 14 ft, 15 ft
4. 5.4 m, 8.6 m, 13 m	5. $\frac{4}{5}$ in., $3\frac{2}{5}$ in., 4 in.	6. 18 mm, 25 mm, 52 mm
Determine whether the give triangle. Explain.	n lengths can be side lengths of a	n right
7. 6 ft, 10 ft, 12 ft	8. 10 in., 24 in., 26 in.	9. 20 m, 21 m, 29 m
10. 15 cm, 17 cm, 21 cm	11. 14 ft, 22.5 ft, 26.5 ft	12. 12 yd, 35 yd, 38 yd
Determine whether the trian	ngles are right triangles. Explain.	
13. 9 in. 12 in. 15 in.	1	4. 15 cm 17 cm 8 cm
15. A company is designing sides each measure 2 cm for the third side: 3 cm, 4	a new logo in the shape of a tria a. Which of the following is a poss 4 cm, 5 cm?	ngle. Two of the sible measure
16. Three nature trails inters of the trails are 2.8 mi, 3 triangle? Explain.	ect to form a triangle around a par .2 mi, and 4.1 mi. Do the trails fo	k. The lengths rm a right
17. The sides of a triangular Is the game board in the	game board are 1 ft, 1 ft, and $\sqrt{2}$ shape of a right triangle? Expla	2 ft in length. in.

18. How do you know that the lengths 6 in., 8 in., and 25 in. cannot form a right triangle without using the Converse of the Pythagorean Theorem?

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