Triangle Inequality Theorem; Converse of the Pythagorean Theorem

Independent Set 6.01

Name_____
Date_____
Period_____

Six questions, on your own, in silence. Show the step that does the work.

1. Can sides of 4 cm, 8 cm and 13 cm make a triangle?

2. Can sides of 9 inches, 9 inches and 18 inches make a triangle?

3. Two sides of a triangle are 5 m and 11 m. Write an inequality for the length x, in meters, of the third side.

4. Do sides of 28 cm, 45 cm and 53 cm make a right triangle?

5. Do sides of 17 ft, 10 ft and 14 ft make a right triangle?

6. A carpenter joins boards of 30 inches, 40 inches and 50 inches into a triangle. Is one corner a right angle?