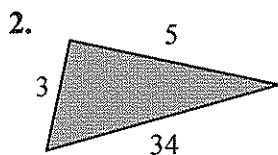


Lesson 2.4 ~ Converse of the Pythagorean Theorem

Name _____ Period _____ Date _____

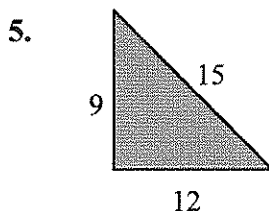
Determine if the given lengths will form a right triangle.

1. 3, 4, 5



3. 5, 7, 9

4. 4.3, 8.3, 6.9



6.  A shaded triangle with side lengths 39, 80, and 89. The side of length 39 is on the left, 80 is on top, and 89 is on the bottom.

Determine if the set of numbers is a Pythagorean triple.

7. 6, 8, 10

8. 21, 28, 35

9. 10, 11, 14

10. 4.0, 4.2, 5.8

11. 8, 40, 41

12. $\frac{3}{5}$, $\frac{4}{5}$, 1

13. Use the Pythagorean triple containing the integers 7, 24, 25.

a. Multiply each number in the set by 2.

b. Verify that the new set of numbers from **step a** form a right triangle.

c. Create two more multiples of the Pythagorean triple 7, 24, 25.

14. Vance wants to determine if an old photo frame is still rectangular. The height of the frame is 8 inches, the base is 6 inches and the diagonal is 10 inches long. Is the old photo frame still rectangular? How do you know?