

Module 7 Lesson 3

Try This 7 - 9

In TT 7 and TT 8, you will consider two pieces of information and attempt to write a concluding statement using that information.

TT 7. Use the following information to answer the following question.

Statement 1: All triangles have three sides.

Statement 2: A bandana is in the shape of a triangle.

What can you conclude about bandanas from the two statements?

TT 8. Consider the two mathematical statements.

Statement 1: $10 = 3 + 7$

Statement 2: $10 = 2 \times 5$

Write a third statement that combines the information from statements 1 and 2.

TT 9. Consider the following system of equations.

$$y = -x + 2$$

$$y = 2x - 7$$

- a. Write a third equation that combines the information from both of the given equations. (**Hint:** The third statement is based on the expressions on the right side of each of the two given statements.)
- b. How is the third equation different from either of the given equations? What advantage is there in writing the third equation?
- c. Solve the third equation for the unknown variable. How would you determine the value of the other unknown variable?