

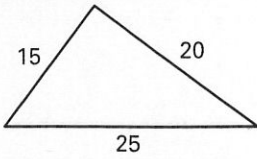
LESSON
7.2

Practice A

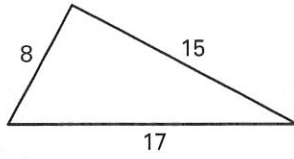
For use with the lesson "Use the Converse of the Pythagorean Theorem"

Tell whether the triangle is a right triangle.

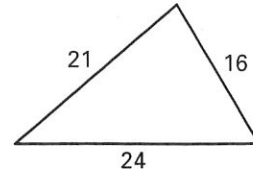
1.



2.



3.



Decide whether the numbers can represent the side lengths of a triangle. If they can, classify the triangle as *acute*, *right*, or *obtuse*.

4. 6, 8, 10

5. 5, 7, 9

6. 8, 9, 10

7. 10, 12, 30

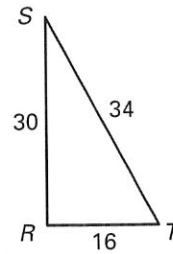
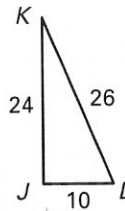
8. 16, 30, 34

9. 18, 34, 45

In Exercises 16 and 17, copy and complete the statement with $<$, $>$, or $=$, if possible. If it is not possible, *explain why*.

16. $m\angle J$? $m\angle R$

17. $m\angle K + m\angle L$? $m\angle S + m\angle T$



18. **Multiple Choice** What type of triangle has side lengths of 4, 4, and 4?

A. Acute scalene

B. Acute equilateral

C. Obtuse scalene

D. Obtuse isosceles

19. **Multiple Choice** What type of triangle has two of the three angles with measurements of 24° and 105° ?

A. Acute

B. Right

C. Obtuse

D. None

In Exercises 20 and 21, use the diagram and the following information.

Maps The distances between three towns are given in the diagram.

20. Is the triangle ($\triangle ABC$) formed by the three towns a right triangle?

21. Town B is directly west of town C . Is town A directly north of town C ?

