



Additional Practice 16-1

Classify Triangles

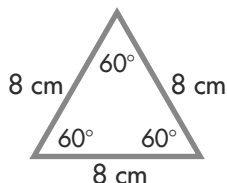
Another Look!

You can classify triangles by the lengths of their sides and the measures of their angles.

Measures of Angles

Acute

All angles are less than 90° .



This triangle is both equilateral and acute.

Right

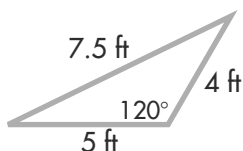
One right angle



This triangle is both isosceles and right.

Obtuse

One obtuse angle



This triangle is both scalene and obtuse.

Lengths of Sides

Equilateral

All sides are the same length.

Isosceles

Two sides are the same length.

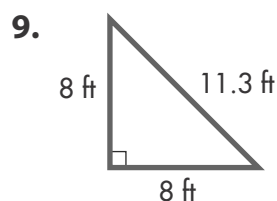
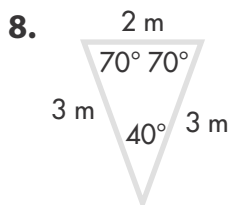
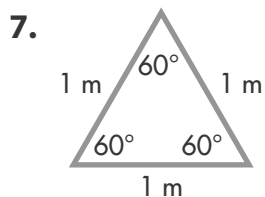
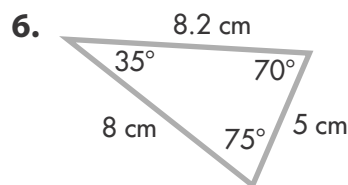
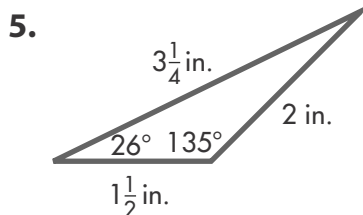
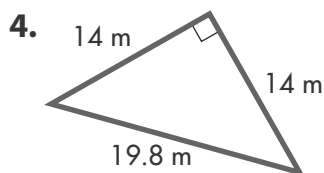
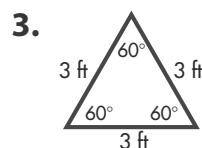
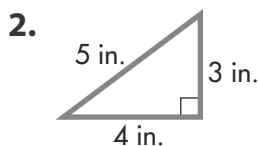
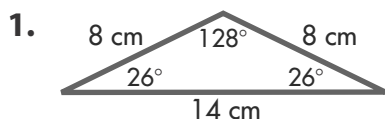
Scalene

No sides are the same length.

Remember that the sum of the angle measures in a triangle is 180° .

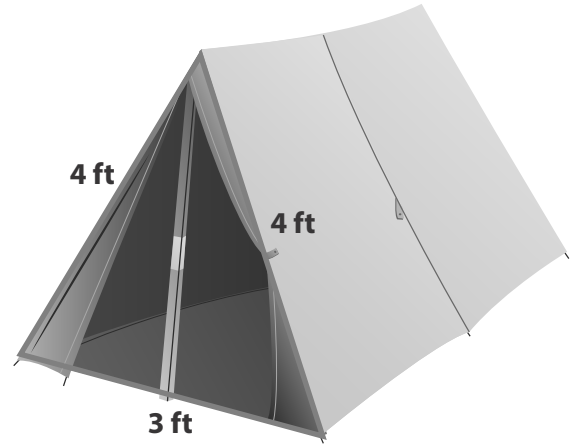


In 1–9, classify each triangle by its sides and then by its angles.

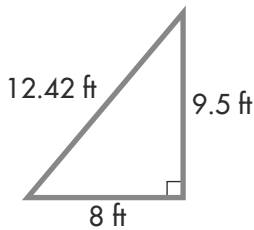


10. Judy bought a new tent for a camping trip. Look at the side of the tent with the opening. Classify the triangle by its sides and its angles.

11. Judy bought her tent on sale. The sale price was \$70 off the original price. Judy also used a coupon for an extra \$15 off. If Judy paid \$125 for the tent, what was its original price? Write an equation to show your work.

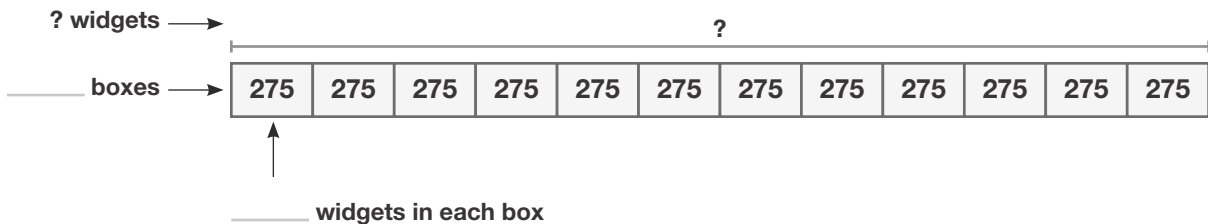


12. **Critique Reasoning** Ted says that the triangle below cannot be classified because all sides are different lengths. Is Ted correct? Explain why or why not.



13. **Higher Order Thinking** The lengths of two sides of a triangle are 15 inches each. The third side measures 10 inches. What type of triangle is this? Explain your answer using geometric terms.

14. A factory ships widgets in crates. There are 12 boxes in each crate. Each box holds 275 widgets. How many widgets are in one crate?



Assessment Practice

15. Claire says that she can draw an obtuse equilateral triangle. Is she correct? Explain.