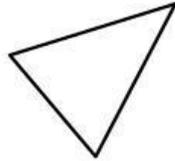


Learning Target: Classify triangles by their angles.

Example Classify the triangle by its angles.



The triangle has three acute angles.

So, it is an acute triangle.

Example Classify the triangle by its angles and its sides.



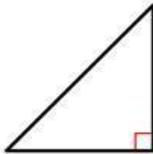
The triangle has one obtuse angle and no sides with the same length.

So, it is an obtuse scalene triangle.

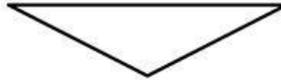


Classify the triangle by its angles.

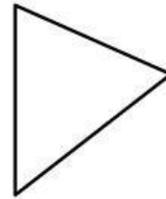
1.



2.

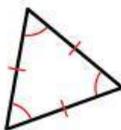


3.

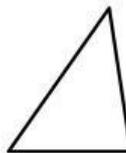


Classify the triangle by its angles and its sides.

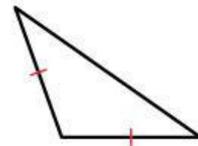
4.



5.



6.



7.



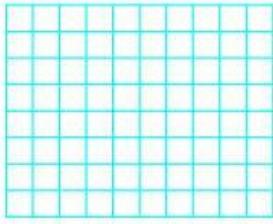
8.



9.

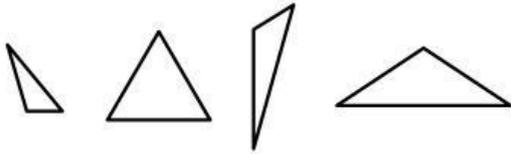


10. **MP Precision** Draw a right isosceles triangle.

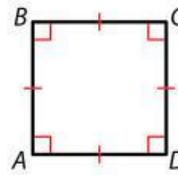


11. **MP Reasoning** Can a triangle have more than one right angle? Explain.

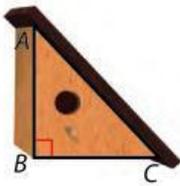
12. **Which One Doesn't Belong?** Which triangle does *not* belong with the other three?



13. **DIG DEEPER!** Draw \overline{BD} . Then classify each triangle by its angles and its sides.



14. **MP Modeling Real Life** Classify the face of the bird house by its angles. Verify your answer by finding the measure of each angle.



15. **MP Modeling Real Life** A construction worker measures a triangle formed by the supports on a bridge. The angle measures are 120° , 36° , and 24° . The side lengths are 12.65 meters, 8.61 meters, and 5.91 meters. Classify the triangle by its angles and its sides.

Review & Refresh

Add.

16. $2\frac{2}{6} + 4\frac{3}{6} = \underline{\hspace{2cm}}$

17. $10\frac{1}{5} + 8\frac{4}{5} = \underline{\hspace{2cm}}$

18. $3\frac{5}{10} + 6\frac{3}{10} + \frac{6}{10} = \underline{\hspace{2cm}}$