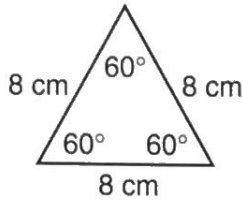


Classifying Triangles

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

acute
all angles
less than 90°

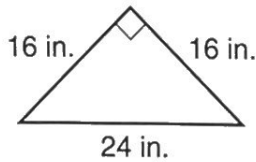


equilateral
all sides the same
length

This triangle is both
equilateral and acute.

Not all acute triangles
are equilateral.

right
one right
angle

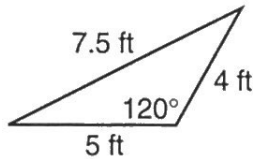


isosceles
two sides the same
length

This triangle is both
isosceles and right.

Not all right triangles
are isosceles.

obtuse
one obtuse
angle



scalene
no sides the same
length

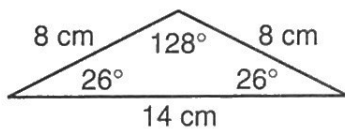
This triangle is both
scalene and obtuse.

Not all obtuse
triangles are scalene.

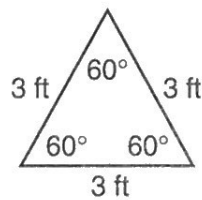
Remember that the sum of the measures of the angles of a triangle is 180° .

Classify each triangle by its sides and then by its angles.

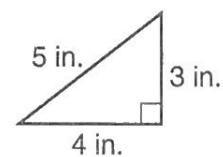
1.



2.



3.



The measures of two angles of a triangle are given. Find the measure of the third angle.

4. $40^\circ, 100^\circ, \underline{\hspace{2cm}}$

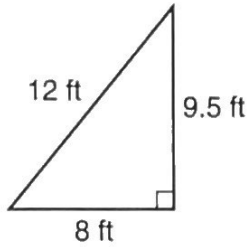
5. $14^\circ, 98^\circ, \underline{\hspace{2cm}}$

6. $38^\circ, 38^\circ, \underline{\hspace{2cm}}$

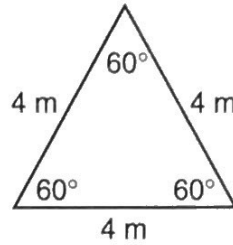
Classifying Triangles

Classify each triangle by its sides and then by its angles.

1.



2.



The measures of two angles of a triangle are given. Find the measure of the third angle.

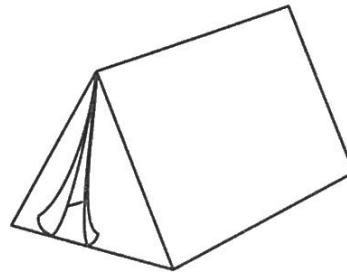
3. $47^\circ, 62^\circ, \underline{\hspace{2cm}}$

4. $29^\circ, 90^\circ, \underline{\hspace{2cm}}$

5. $75^\circ, 75^\circ, \underline{\hspace{2cm}}$

6. $54^\circ, 36^\circ, \underline{\hspace{2cm}}$

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



Test Prep

8. Which describes a scalene triangle?

- A. 4 equal sides B. 3 equal sides C. 2 equal sides D. 0 equal sides

9. **Writing in Math** The lengths of two sides of a triangle are 15 in. each. The third side measures 10 in. What type of triangle is this? Explain your answer using geometric terms.
