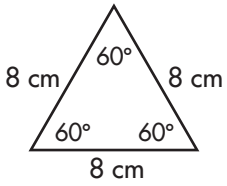
Name _____

Reteaching
15-2

Triangles

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

acute
all angles less than 90°

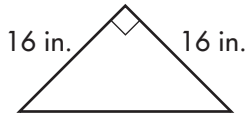


equilateral
all sides the same length

This triangle is both equilateral and acute.

Not all acute triangles are equilateral.

right
one right angle

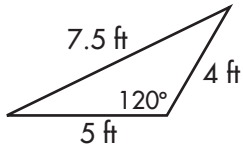


isosceles
two sides the same length

This triangle is both isosceles and right.

Not all right triangles are isosceles.

obtuse
one obtuse angle



scalene
no sides the same length

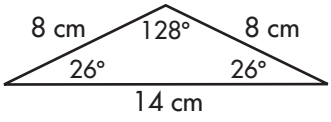
This triangle is both scalene and obtuse.

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.



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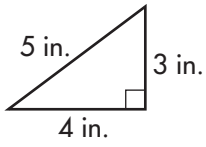
2.



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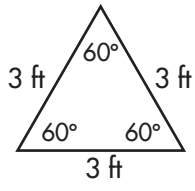
3.



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_____

Classify the following triangles based on the angles given.

4. 40°, 100°, 40° _____

5. 14°, 98°, 68° _____

6. 38°, 38°, 104° _____

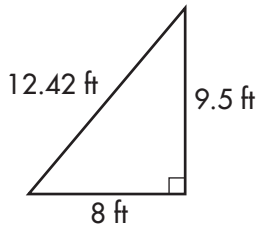
Name _____

Practice
15-2

Triangles

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

1.



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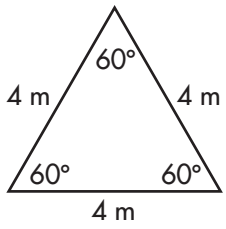
2.



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Given the measures of the angles for a triangle, classify the triangle by angles.

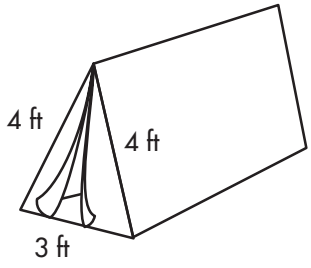
3. 47°, 62°, 71° _____

4. 29°, 90°, 61° _____

5. 75°, 75°, 30° _____

6. 54°, 36°, 90° _____

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.



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8. Which describes a scalene triangle?

A 4 equal sides **B** 3 equal sides **C** 2 equal sides **D** 0 equal sides

9. 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.

_____

_____

