# Triangles

<table>
<thead>
<tr>
<th>Right angles</th>
<th>Obtuse angles</th>
<th>Acute angles</th>
</tr>
</thead>
<tbody>
<tr>
<td>(exactly 90°)</td>
<td>(more than 90°, less than 180°)</td>
<td>(less than 90°)</td>
</tr>
</tbody>
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<td>have exactly one right angle.</td>
<td>have three acute angles. In other words, ALL the angles are acute.</td>
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## 1. Triangles

**Right triangles** have exactly one right angle.

**Obtuse triangles** have exactly one obtuse angle.

**Acute triangles** have three acute angles. In other words, ALL the angles are acute.

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1. **a.** Draw a right **angle**. Then make it into a right **triangle** by drawing in the third side.

   **b.** Draw another, different right triangle.

   **c.** A right triangle has one right angle. Are the other two angles in a right triangle acute, right, or obtuse?

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A right triangle has one right angle. The other two angles are _____________.

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Sample worksheet from www.mathmammoth.com
2. **a.** Draw an obtuse angle. Then make it into an obtuse triangle by drawing in the third side.

**b.** Draw another, different obtuse triangle.

**c.** An obtuse triangle has one obtuse angle. Are the other two angles in an obtuse triangle acute, right, or obtuse?

An obtuse triangle has one obtuse angle. The other two angles are ________________.

3. **a.** Draw an acute triangle. The side lengths can be any.

**b.** Measure its angles.

They measure ______°, ______°, and ______°.

4. Observe all you have done thus far in this lesson, and fill in.

**Right triangles** have exactly 1 ________________ ________________, and the other two angles are ________________.

**Obtuse triangles** have exactly 1 ________________ ________________, and the other two angles are ________________.

**Acute triangles** have ___ ________________ angles.