Triangle Puzzler
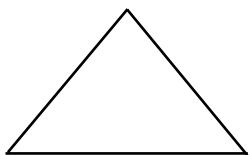
Kinds of Triangles

Triangles are named by the types of angles and sides they contain.

Directions: Read the chart below to find out the names of triangles and their descriptions. Identify the types of triangles at the bottom of the page. Note: Some of the triangles can be identified in more than one way. Explain all possibilities. Then, use what you have learned to solve the puzzler on page 30.

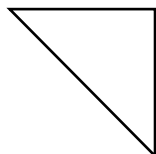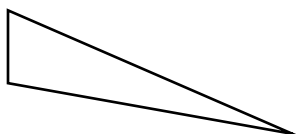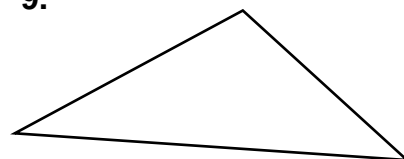| Type of Triangle	Description
equilateral	three sides of equal length and three angles of equal measure
isosceles	at least two sides must have the same measure
scalene	no equal sides
right	one right angle (90°)
acute	all angles less than 90°
obtuse	one angle greater than 90°

1.

2.
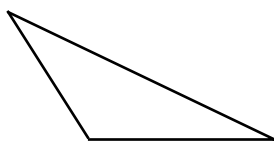
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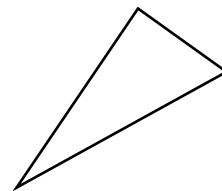
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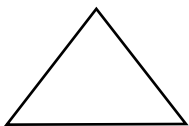
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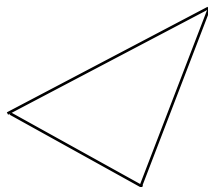
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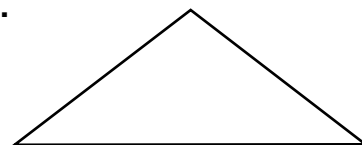
7.

8.

9.

Triangle Puzzler (cont.)

Directions: Use the information on page 29 to find as many kinds of triangles as you can in the figure below. List them on the lines.

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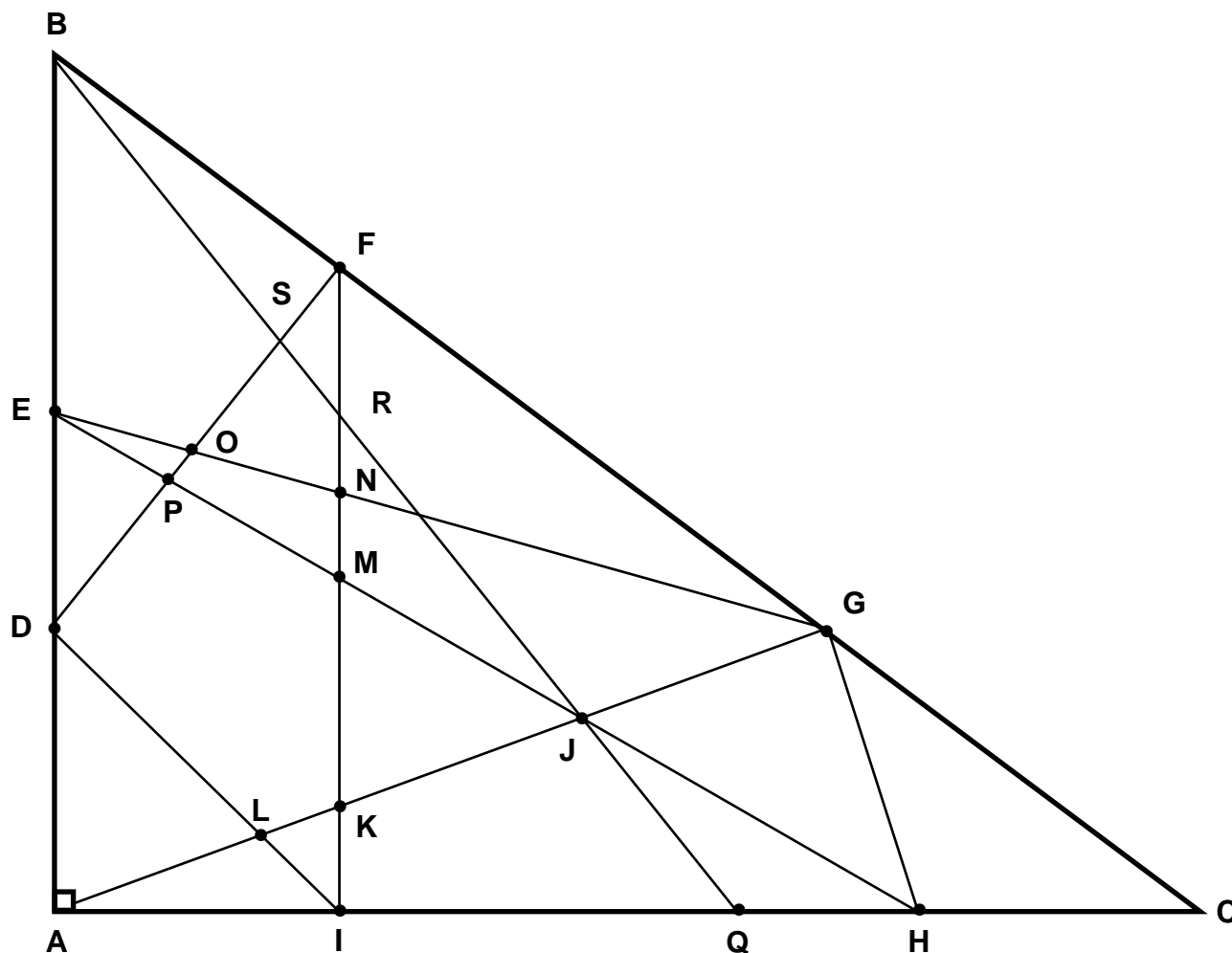
Challenge: Find all the triangles you can that have at least one side and one angle of triangle ABC within them. List them on the back of this paper. Label the kind of triangle for each one you find. Note: Some triangles may have more than one name. For example, a triangle may be scalene and obtuse.