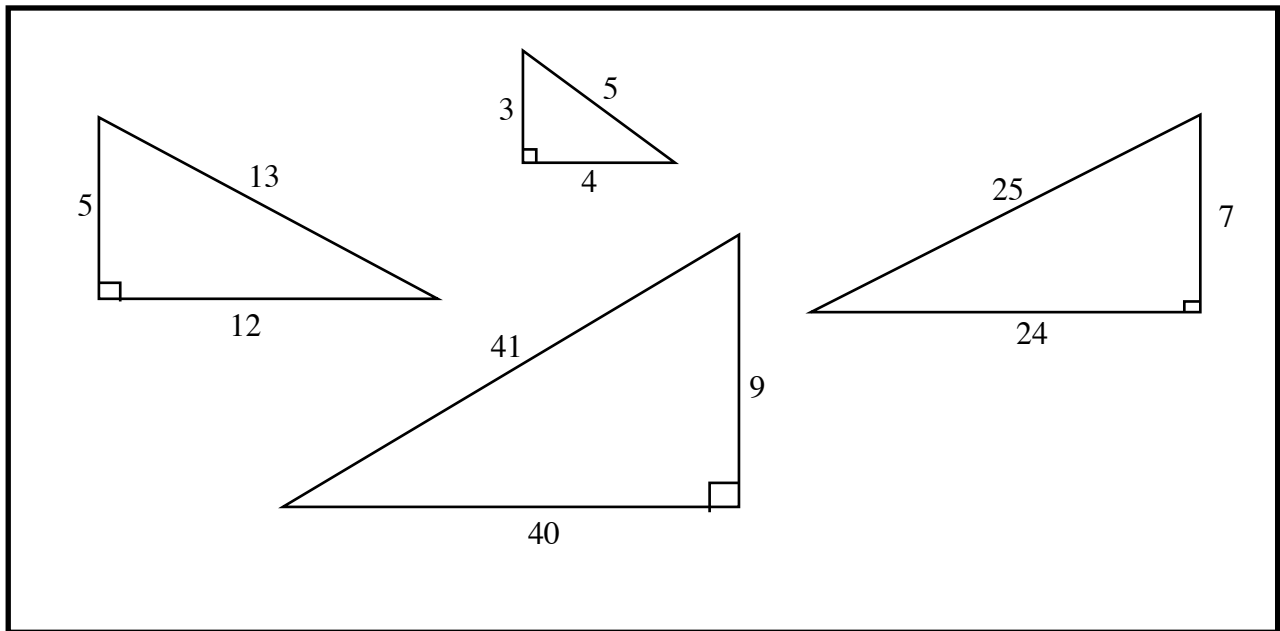# Pythagorean Triples

(3, 4, 5), (5, 12, 13), (7, 24, 25) and (9, 40, 41) are called Pythagorean Triples because they satisfy the condition

$$c^2 = a^2 + b^2$$

1. Investigate the relationships between the lengths of the sides of triangles that belong to this set.

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Pythagorean Triples (continued)

2. Use these relationships to find the numerical values of at least two further Pythagorean Triples that belong to this set.

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3. Investigate rules for finding the perimeter and area of triangles that belong to this set when you know the length of the shortest side.

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Pythagorean Triples