How Many Triangles Can Be Created?

Determine whether you can create *one*, *more than one*, or *no triangle* for each description below. Write each answer on the blank. If needed, you can try drawing the triangles on a separate piece of paper using a protractor and ruler.

1 A triangle with side lengths of 5 centimeters, 3 centimeters, and 4 centimeters

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2 A triangle with angle measures of 35°, 80°, and 65°

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3 A triangle with angle measures of 100°, 70°, and 25°

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4 A triangle with one side length of 6 centimeters and two side lengths of 3 centimeters

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5 A triangle with angle measures of 120°, 45°, and 15°

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6 A triangle with side lengths of 3 centimeters, 2 centimeters, and 7 centimeters

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7 A triangle with one angle measure of 55° and two side lengths of 4 centimeters

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8 A triangle with side lengths of 4 centimeters and 6 centimeters that form a 30° angle

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9 A triangle with one side length of 7 centimeters with angles at each end measuring 25° and 45°

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10 A triangle with two side lengths of 5 centimeters that form a 120° angle

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