## 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
one triangle

A triangle with angle measures of $100^{\circ}, 70^{\circ}$, and $25^{\circ}$

2
A triangle with angle measures of $35^{\circ}, 80^{\circ}$, and $65^{\circ}$
more than one triangle

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

A triangle with side lengths of 3 centimeters, 2 centimeters, and 7 centimeters
no triangle

A triangle with side lengths of 4 centimeters and 6 centimeters that form a $30^{\circ}$ angle
one triangle

A triangle with two side lengths of 5 centimeters that form a $120^{\circ}$ angle

