

Name : \_\_\_\_\_

## Possible Triangles

Sheet 1

Write the number of possible triangles that can be formed using given measurements.

1)  $m\angle Y = 53^\circ$ ,  $x = 7$  yd,  $y = 19$  yd

2)  $m\angle F = 35^\circ$ ,  $d = 90$  ft,  $f = 50$  ft

3)  $m\angle Q = 79^\circ$ ,  $p = 24$  in,  $q = 15$  in

4)  $m\angle A = 45.6^\circ$ ,  $a = 21$  yd,  $c = 25.8$  yd

5)  $m\angle R = 60^\circ$ ,  $r = 47$  ft,  $s = 51$  ft

6)  $m\angle V = 90^\circ$ ,  $u = 56$  yd,  $v = 70$  yd

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## Answer key

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**One triangle**

**No triangle**

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4)  $m\angle A = 45.6^\circ$ ,  $a = 21$  yd,  $c = 25.8$  yd

**No triangle**

**Two triangles**

5)  $m\angle R = 60^\circ$ ,  $r = 47$  ft,  $s = 51$  ft

6)  $m\angle V = 90^\circ$ ,  $u = 56$  yd,  $v = 70$  yd

**Two triangles**

**One triangle**