NAME:_____

1. Given a triangle with $a = 20$, $C = 37°$, and $B = 24°$, what is the length of c? Round the answer to two decimal places.

    [A] 29.59   [B] 13.52   [C] 13.76   [D] 43.01

2. Given a triangle with $a = 6$, $C = 35°$, and $B = 38°$, what is the length of c? Round the answer to two decimal places.

    [A] 3.6   [B] 6.44   [C] 5.59   [D] 9.32

3. Given a triangle with $a = 8$, $C = 33°$, and $B = 44°$, what is the length of c? Round the answer to two decimal places.

    [A] 11.22   [B] 4.47   [C] 10.2   [D] 6.27

4. Given a triangle with $a = 7$, $C = 17°$, and $B = 32°$, what is the length of c? Round the answer to two decimal places.

    [A] 9.97   [B] 12.69   [C] 2.71   [D] 3.86

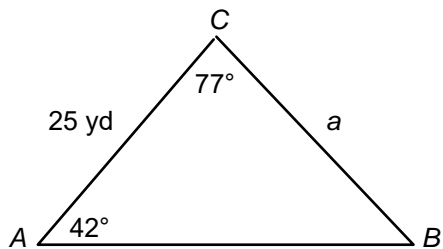5. Solve triangle ABC given that $A = 50°$, $B = 44°$, and $b = 68$.

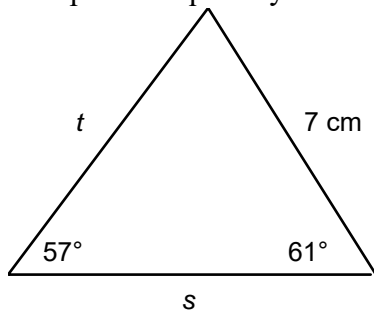6. Solve triangle ABC given that $A = 57°$, $B = 43°$, and $b = 69$.

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7. Solve triangle ABC given that $A = 43°$, $B = 46°$, and $b = 64$.

8. Solve triangle ABC given that $A = 45°$, $B = 46°$, and $b = 74$.

9. Find the missing measure a in this drawing. Round your answer to the nearest hundredth.

10. Compare the quantity in Column A with the quantity in Column B.

Column A	Column B
$\dfrac{s}{\sin 62°}$	$\dfrac{t}{\sin 61°}$

[A] The quantity in Column A is greater.   [B] The quantity in Column b is greater.

[C] The two quantities are equal.

[D] The relationship cannot be determined on the basis of the information supplied.

[1]   C

[2]   A

[3]   B

[4]   C

[5] $C = 86°$, $a = 74.99$, $c = 97.65$

[6] $C = 80°$, $a = 84.85$, $c = 99.64$

[7] $C = 91°$, $a = 60.68$, $c = 88.96$

[8] $C = 89°$, $a = 72.74$, $c = 102.86$

[9]   19.13 in.

[10] C