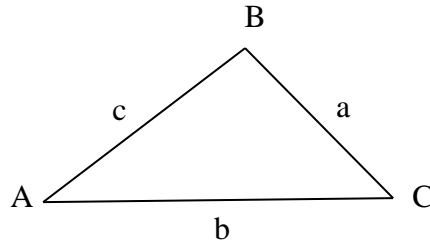


Name \_\_\_\_\_

Date \_\_\_\_\_

### Using The Law of Sines

Given triangle ABC with sides a,b, and c as shown below, find the length of the side indicated in each problem to four figure accuracy. Obtain a message by placing in the space provided the letter that corresponds to each answer.



1.  $A = 38^\circ 50'$ ,  $C = 59^\circ$ ,  $c = 419.6\text{m}$  a = \_\_\_\_\_
2.  $B = 39^\circ 42'$ ,  $C = 63^\circ 10'$ ,  $b = 8291\text{m}$  c = \_\_\_\_\_
3.  $A = 41^\circ$ ,  $B = 60^\circ 40'$ ,  $a = 24.75\text{m}$  b = \_\_\_\_\_
4.  $A = 31^\circ 25'$ ,  $C = 63^\circ$ ,  $c = 8.314\text{m}$  a = \_\_\_\_\_
5.  $B = 49^\circ$ ,  $C = 61^\circ 50'$ ,  $b = 5029\text{m}$  c = \_\_\_\_\_
6.  $A = 34^\circ 10'$ ,  $B = 29^\circ 14'$ ,  $a = 18.46\text{m}$  b = \_\_\_\_\_
7.  $B = 60^\circ 40'$ ,  $C = 78^\circ 20'$ ,  $c = 36.95\text{m}$  b = \_\_\_\_\_
8.  $A = 39^\circ 55'$ ,  $B = 47^\circ$ ,  $b = 6136\text{m}$  a = \_\_\_\_\_
9.  $A = 54^\circ 16'$ ,  $C = 48^\circ 10'$ ,  $a = 981.4\text{m}$  c = \_\_\_\_\_
10.  $A = 39^\circ 10'$ ,  $B = 64^\circ 50'$ ,  $c = 525.6\text{m}$  a = \_\_\_\_\_
11.  $A = 49^\circ 10'$ ,  $B = 56^\circ 20'$ ,  $c = 5.962\text{m}$  a = \_\_\_\_\_
12.  $A = 49^\circ 10'$ ,  $B = 56^\circ 20'$ ,  $b = 5.149\text{m}$  a = \_\_\_\_\_
13.  $B = 53^\circ$ ,  $b = 6319\text{m}$ ,  $a = 7225\text{m}$  c = \_\_\_\_\_

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1	2	3	4	5	6	7	8	9	10	11	12	13
C = 5875 m			U = 342.1 m			E = 5383 m					W = 307.0 m	
O = 11590 m			R = 32.89 m			S = 4831 m					F = 900.9 m	
L = 4.681 m			Y = 6924 m			K = 4.864 m					A = 16.05 m	