DMMC

Name: _____   School: _____

8-6-24 Alpha Contest

Sample Test 3

Correct answers are worth 1 point. Incorrect and blank answers are worth 0 points. You are given 30 minutes to complete the test and no calculators are allowed.

1. _____ It is snowing outside. 3 inches of snow accumulate every 2 hours. If it started snowing at 5:00 PM, how much snow is on the ground at 2 AM?

2. _____ Throughout the school year, Robbie has taken 4 tests. His scores on these tests were 70, 85, 86, and 73. Robbie will take one final test. If he wants his average score on the 5 tests to be 80, what score must he earn on the final test?

3. _____ A circle has diameter 10. What is the circle's circumference?

4. _____ Sherlock has a wood board with width 10 in. and length 15 in. If Sherlock wants the ratio of the width to the height to be 5:1, how many inches must he add to the width of the board?

5. _____ A coffee table is composed of a rectangular portion with two half circles on the ends. If the half circles have radius 3 and the length of the rectangular portion is 9, what is the area of the surface of the coffee table?

6. _____ What is the perimeter of the coffee table described in Problem 5?