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

Review #2

Use the table for the questions below

|  |  |
| --- | --- |
| System 1 | System 2 |
| Test Average- 50% | Test Average- 60% |
| Final Exam Grade- 25% | Final Exam Grade-20% |
| Homework- 15% | Homework- 10% |
| Class Participation- 10% | Class Participation- 10% |

1. Use the following information to find your final course average in each grading system:

Test Grades { 85, 75, 80, 91} System 1:

Final Exam Grade = 86 System2:

Homework = 92

Class Participation = 94

1. Which of these two grading systems do you prefer and why?
2. It is Joe Blow’s first season of playing baseball with the Marlins. He has had 280 at-bats. So far he has 49 singles, 12 doubles, 26 triples and 9 homeruns. How many more homeruns would Joe need to have at least an .800 slugging average? (don’t forget to add the number of homeruns to his at bats before calculating)
3. Suppose Joe hit 10 homeruns and 60 singles with 280 at bats. Calculate his slugging percentage assuming he had twice as many doubles as he did triples. (Hint: Let x be triples)
4. Is it possible to have a slugging percentage of over 1? Please explain your reasoning.
5. Determine the check digit for the **UPC** number 61230032451d.
6. Show that 4128 0012 4389 0110 is and invalid credit card number. Explain your reasoning.
7. For the tire size P265/75R18, find the following information:

Width:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Aspect Ratio:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Height(in.):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Diameter:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Circumference:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Suppose the factory installed tires were replaced with a much larger set of tires for appearance reasons. The vehicle was driven for 2 years and an additional 40000 miles were put on the car. How many miles were really put on the car in the two years if the new tires had a circumference of 86.4 and the factory tires had a circumference of 70.1? (Be accurate)