Student Name: _____

Teacher: _____ Date: _____

District: Miami-Dade County Public Schools

Assessment: 08 Mathematics Mathematics Benchmark 3

Description: MAFS.8.EE.1.4 PRACTICE

Form: 201

1. Which expression is equivalent to $(5.4\times10^{10})(3.3\times10^{21})$?

A. 8.7×10^{31}

B. 8.7×10^{210}

C. 1.782×10^{32}

D. 1.782×10^{211}

2. What is the total weight, in pounds, of 100 sharks that each weighs 5.015×10^{3} pounds?

A. 5.015×10^{2}

B. 5.015×10^{4}

C. 5.015×10^{5}

D. 5.015×10^{6}

3. The approximate mass of a hydrogen atom is 1.7×10^{-24} grams. The mass of a single lead atom is approximately 3.4×10^{-22} grams. How many times heavier is a lead atom than a hydrogen atom?

A. 5 times heavier

B. 20 times heavier

C. 50 times heavier

D. 200 times heavier

4. Tyler's math class found that it would take 2.5×10^8 dollar bills to cover a square mile area. The surface area of the United States is about 3.8×10^6 square miles. About how many dollar bills are needed to cover the United States?

A. 6.3×10^{14}

B. 9.5×10^{14}

C. 6.3×10^{48}

D. 9.5×10^{48}

5. A spaceship traveled at a speed of 5,000 miles per hour for 30,000 hours. How many miles, written in scientific notation, did this spaceship travel?

A. 15×10^1

B. 15×10^7

C. 1.5×10^8

D. 1.5×10^{12}