
Student Name: _____

Teacher: _____ Date: _____

District: Miami-Dade County Public Schools

Assessment: 08 Mathematics Mathematics Benchmark 3

Description: MAFS.8.EE.1.3 PRACTICE

Form: 201

1. The mass of the planet Jupiter is approximately 1.8981×10^{27} kilograms. The mass of the planet Venus is approximately 4.8673×10^{24} kilograms. About how many times larger is the mass of Jupiter than that of Venus?
 - A. 0.39
 - B. 2.56
 - C. 390
 - D. 2,564

2. The mass of two objects is being compared during a physics experiment. It is determined that object A has a mass of 4×10^{-3} and object B has a mass of 4×10^{-4} . How many times larger is the mass of object A than the mass of object B?
 - A. 0.1
 - B. 0.4
 - C. 10
 - D. 40

3. The speed of light is approximately 3×10^8 meters per second. While solving a problem, Cara used 3×10^{10} meters per second for the speed of light and got the incorrect answer. By which factor should Cara multiply her answer in order to get the correct answer?
 - A. 10^{-18}
 - B. 10^{-2}
 - C. 10^2
 - D. 10^{18}

4. A large glass marble made in West Virginia has a diameter of 2×10^{-2} meters. The state of West Virginia is about 4×10^5 meters in length. Which number is closest to how many large glass marbles it would take to measure the length of West Virginia?

- A. 2×10^{-10}
- B. 2×10^{-3}
- C. 2×10^3
- D. 2×10^7

5. The populations of two towns, town A and town B, are being compared. The population of town A is 4×10^4 and the population of B is 2×10^5 . How many times greater is the population of town B than town A?

- A. 0.2
- B. 0.5
- C. 2
- D. 5