Day 3~ Scientific Notation HW

Student

Date

- What is the value of the expression (3³)(2⁴)(3⁻⁴)(2⁻³)?
 - **A.** -6
 - **B**. -3
 - C. $\frac{1}{6}$
 - D. 2 3
- 2. The volume of a cube is 125 cm³. What is the length of each side of the cube?
 - **A.** 5 cm
 - B. 11.18 cm
 - C. 25 cm
 - D. 31.25 cm
- 3. How is 3.25×10^6 written in standard form?
 - A. 3,250,000
 - B. 32,500,000
 - **C**. 325,000,000
- **4.** The diameter of a grain of sand is 0.06534 millimeter. Which value is the best estimate of this diameter?
 - **A.** 6×10^{-3} millimeter
 - B. 7×10^{-3} millimeter
 - **C.** 6×10^{-2} millimeter
 - **D.** 7×10^{-2} millimeter

5. The masses of three planets are shown in the table below.

Planet	Mass (kg)
Venus	4.87×10^{24}
Earth	5.98×10^{24}
Mars	6.42 x 10 ²³

Which shows the planets ordered from greatest to least mass?

- A. Earth, Venus, Mars
- B. Venus, Earth, Mars
- C. Mars, Earth, Venus
- D. Mars, Venus, Earth
- 6. Which is equivalent to $(2.0 \times 10^3)(2.0 \times 10^4)$?
 - A. 2.0×10^7
 - B. 4.0×10^7
 - C. 2.0×10^{12}
 - D. 4.0×10^{12}
- **7.** Which value is equivalent to

$$2.4 \times 10^4 - 1.7 \times 10^2$$
?

- **A.** 238,300
- **B.** 23,830
- **C.** 2230
- **D.** 70

8.

$$\frac{3.0\times10^{5}}{1.5\times10^{-2}}?$$
 What is the value of $\frac{3.0\times10^{5}}{1.5\times10^{-2}}$?

- A. 2,000
- B. 4,500
- C. 15,000,000
- D. 20,000,000

9. Which of these equations does NOT have any solutions?

- A. 10-3x-1=7+3x+2
- **B.** 12-7x-10=x-8x+2
- C. 13-4x+2=3x-7x+2
- D. 15-2x-2=10x+3x+2

10. What is the solution to

$$5(x+1) - 8 = x - 4(2x - 1)$$
?

- **A**. 1
- **B.** $\frac{7}{12}$
- **C.** $\frac{1}{2}$
- **D**. -1

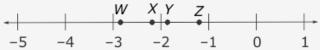
11. Which of these is a rational number?

- **A.** √254

- D. $-\sqrt{3}$

12. Which letter is located at

approximately $\sqrt{5}$?



- A. W
- B. *X*
- C. Y
- D. Z