

Name: _____

Date: _____

Quiz name: Exponents and Scientific Notation 1

1. Write the number .0045 in scientific notation..

- (A) 0.45×10^0
 (B) 4.5×10^{-3}
 (C) 4.5×10^0
 (D) 45×10^{-1}
-

2. Which list shows the numbers in order from GREATEST to LEAST?.

- (A) 3.6×10^{-2} , 3.6×10^{-3} , 6.3×10^{-3}
 (B) 3.6×10^{-3} , 3.6×10^{-2} , 6.3×10^{-3}
 (C) 3.6×10^{-2} , 6.3×10^{-3} , 3.6×10^{-3}
 (D) 6.3×10^{-3} , 3.6×10^{-3} , 3.6×10^{-2}
-

3. Write the number 7.45×10^{-3} in standard form..

- (A) .00745
 (B) 7,-450
 (C) 745
 (D) 74,500
-

4. Evaluate $(-2)^{-4}$..

- (A) -16
 (B) 1/16
 (C) -1/16
 (D) 16
-

5. Simplify: $8^7 / 8^2$.

- (A) 40
 (B) 8^5
 (C) 8^9
 (D) $8^{3.5}$
-

6. Write $(y)(y)(y)(y)(y)(y)(y)(y)$ in exponential form..

- (A) 8^y
 (B) y^8
 (C) y^6
 (D) y^{-8}
-

7. Simplify $(4.2 \times 10^{11}) / (1 \times 10^4)$.

- (A) 4.2×10^4
 (B) 4.2

- C 4.2×10^{11}
 - D 4.2×10^7
-

8. Simplify and write in proper scientific notation: $(1.1 \times 10^3) + (5. \times 10^2)$.

- A 6.1×10^5
 - B 51.1×10^3
 - C 6.1×10^2
 - D 5.11×10^2
-

9. Simplify and write in proper scientific notation: $(2.005 \times 10^8) - (5 \times 10^5)$.

- A 2.000×10^8
 - B -2.995×10^3
 - C -2.995×10^{12}
 - D 2.000×10^5
-

10. Simplify and write in proper scientific notation: $(6 \times 10^4) (4 \times 10^4)$.

- A 24×10^4
 - B 2.4×10^5
 - C 2.4×10^7
 - D 2.4×10^9
-

11. Simplify and write in proper scientific notation: $480,000 + (2.8 \times 10^6) - (3.5 \times 10^5)$.

- A 4.1×10^6
- B 29.3
- C 2.93×10^6
- D 4.1×10^5