

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

Date: \_\_\_\_\_

**Quiz name: Exponents and Scientific Notation 1**

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

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

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

- (A)  $3.6 \times 10^{-2}$ ,  $3.6 \times 10^{-3}$ ,  $6.3 \times 10^{-3}$   
 (B)  $3.6 \times 10^{-3}$ ,  $3.6 \times 10^{-2}$ ,  $6.3 \times 10^{-3}$   
 (C)  $3.6 \times 10^{-2}$ ,  $6.3 \times 10^{-3}$ ,  $3.6 \times 10^{-3}$   
 (D)  $6.3 \times 10^{-3}$ ,  $3.6 \times 10^{-3}$ ,  $3.6 \times 10^{-2}$
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3. Write the number  $7.45 \times 10^{-3}$  in standard form..

- (A) .00745  
 (B) 7,-450  
 (C) 745  
 (D) 74,500
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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)  $4.2 \times 10^4$   
 (B) 4.2

- C  $4.2 \times 10^{11}$
  - D  $4.2 \times 10^7$
- 

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

- A  $6.1 \times 10^5$
  - B  $51.1 \times 10^3$
  - C  $6.1 \times 10^2$
  - D  $5.11 \times 10^2$
- 

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

- A  $2.000 \times 10^8$
  - B  $-2.995 \times 10^3$
  - C  $-2.995 \times 10^{12}$
  - D  $2.000 \times 10^5$
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10. Simplify and write in proper scientific notation:  $(6 \times 10^4) (4 \times 10^4)$ .

- A  $24 \times 10^4$
  - B  $2.4 \times 10^5$
  - C  $2.4 \times 10^7$
  - D  $2.4 \times 10^9$
- 

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

- A  $4.1 \times 10^6$
- B 29.3
- C  $2.93 \times 10^6$
- D  $4.1 \times 10^5$