

### Class Test on Negative Exponent

NAME: .....SECTION .....CLASS VIII

**Directions:** Circle the most correct response

1. Which of the following is the standard form of each expression

a.  $4 \times 10^3 + 2 \times 10^2 + 7 \times 10^{-4} + 4 \times 10^{-7}$

i. 4200.000704

ii. 4200.0007004

iii. 4200.00074

iv. 4200.000074

b.  $5 \times 10^{-3} + 4 \times 10^{-5} + 6 \times 10^{-8}$

i. 0.005040006

ii. 0.00540006

iii. 0.00504006

iv. 0.00054006

c.  $5 \times 10^1 + 6 \times 10^0 + 3 \times 10^{-3} + 7 \times 10^{-5} + 8 \times 10^{-6}$

i. 56.003078

ii. 56.030078

iii. 56.000378

iv. 56.030708

2. Which of the following is the exponential form of each

a. 4325.006205

i.  $4 \times 10^3 + 3 \times 10^2 + 2 \times 10^1 + 5 \times 10^0 + 6 \times 10^{-3} + 2 \times 10^{-4} + 5 \times 10^{-6}$

ii.  $4 \times 10^3 + 3 \times 10^2 + 2 \times 10^1 + 5 \times 10^0 + 6 \times 10^{-2} + 2 \times 10^{-4} + 5 \times 10^{-6}$

iii.  $4 \times 10^3 + 3 \times 10^2 + 2 \times 10^1 + 5 \times 10^0 + 6 \times 10^{-2} + 2 \times 10^{-4} + 5 \times 10^{-6}$

iv.  $4 \times 10^3 + 3 \times 10^2 + 2 \times 10^1 + 5 \times 10^0 + 6 \times 10^{-1} + 2 \times 10^{-4} + 5 \times 10^{-6}$

b. 0.003056

i.  $3 \times 10^{-4} + 5 \times 10^{-6} + 6 \times 10^{-6}$

ii.  $3 \times 10^{-3} + 5 \times 10^{-4} + 6 \times 10^{-6}$

iii.  $3 \times 10^{-3} + 5 \times 10^{-5} + 6 \times 10^{-6}$

iv.  $3 \times 10^{-3} + 5 \times 10^{-4} + 6 \times 10^{-6}$

c. The value of  $3^{-3}$  is

- i. 27
- ii.  $\frac{1}{27}$
- iii. 0.003
- iv. -27

d. The sum of  $6.5 \times 10^{-2} + 5 \times 10^{-3}$  is

- i. 0.7
- ii. 0.75
- iii. 0.070
- iv. 6.75

e. The product of  $10^{-5} \times 10^{-5}$  is

- i. 0.0000001
- ii. 0.00000001
- iii. 0.000000001
- iv. 0.0000000001

f. The difference of  $2.5 \times 10^{-2} - 1.5 \times 10^{-2}$  is

- i. 0.001
- ii. 0.100
- iii. 0.010
- iv. 0.1

g. If we write  $4 \times 10^{-5} + 5 \times 10^{-8} + 7 \times 10^{-15}$  in standard form. The number of digits after the decimal point would be

- i. 10
- ii. 15
- iii. 20
- iv. 25