

Name Key

Date _____

Pd _____

6.1 DAY THREE Scientific Notation Practice WS

Write each number in scientific notation.

1) 0.000006

6×10^{-6}

2) 5400000

5.4×10^6

3) 60

6.0×10^1

4) 0.009

9×10^{-3}

5) 6.7

6.7×10^0

6) 0.0000002

2×10^{-7}

Write each number in standard notation.

7) 0.9×10^{-1}

0.09

8) 2×10^{-1}

0.2

9) 2×10^5

2,000,000

200,000

10) 804×10^2

804,000

80,400

11) 2.66×10^4

26,600

26,600

12) 1.5×10^{-2}

0.015

0.015

Simplify the following problems by performing the operation provided.

13) $(9.32 \times 10^3)(3.32 \times 10^2)$

$$30.9424 \times 10^{3+2}$$

$$\boxed{\begin{array}{l} 30.9424 \times 10^5 \\ \text{or} \\ 3.09424 \times 10^6 \end{array}}$$

15) $(7.22 \times 10)(4.45 \times 10^3)$

$$32.129 \times 10^{1+3}$$

$$\boxed{\begin{array}{l} 32.129 \times 10^4 \\ \text{or} \\ 3.2129 \times 10^5 \end{array}}$$

17) $(6.82 \times 10^5)(3.77 \times 10^2)$

$$25.7114 \times 10^{5+2}$$

$$\boxed{\begin{array}{l} 25.7114 \times 10^7 \\ \text{or} \\ 2.57114 \times 10^8 \end{array}}$$

14) $(5.26 \times 10^5) \div (11.1 \times 10^3)$

$$\frac{5.26 \times 10^5}{11.1 \times 10^3}$$

$$0.474 \times 10^{5-3}$$

$$\boxed{0.474 \times 10^2}$$

16) $(5.75 \times 10^4) \div (4.7 \times 10^2)$

$$\frac{5.75 \times 10^4}{4.7 \times 10^2}$$

$$1.223 \times 10^{4-2}$$

$$\boxed{1.223 \times 10^2}$$

18) $(3.38 \times 10^6) \div (7.8 \times 10^4)$

$$\frac{3.38 \times 10^6}{7.8 \times 10^4}$$

$$0.433 \times 10^{6-4}$$

$$\boxed{0.433 \times 10^2}$$