

Name _____

11/17/09

Performance Indicator: Multiply, divide, and square numbers expressed in scientific notation.

1. Express the result of $\frac{1.3 \times 10^9}{2.6 \times 10^4}$ in scientific notation.

A. 5×10^2

B. 5×10^3

C. 5×10^4

D. 5×10^5

2. Express the result of $\frac{4.2 \times 10^8}{7 \times 10^5}$ in scientific notation.

A. 6×10^{-2}

B. 6×10^3

C. 6×10^2

D. 6×10^4

3. Express the result of $\frac{4.65 \times 10^{-4}}{3.1 \times 10^2}$ in scientific notation.

A. 1.5×10^{-6}

B. 1.5×10^6

C. 1.5×10^7

D. 1.5×10^{-7}

4. Simplify the expression, $(7 \times 10^4)^2$, using scientific notation.

A. 4.9×10^6

B. 4.9×10^7

C. 4.9×10^8

D. 4.9×10^9

5. Simplify the expression, $(4 \times 10^5)^2$, using scientific notation.

A. 1.6×10^9

B. 1.6×10^9

C. 1.6×10^{10}

D. 1.6×10^{11}

KEY:

1. C

2. C

3. A

4. D

5. D