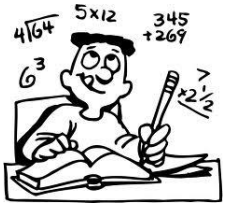

Dividing Numbers Expressed in Scientific Notation

Name: _____Per. ____

Evaluate each quotient. Express the results in both scientific notation and standard form.

1. $\frac{8 \times 10^3}{2 \times 10^9}$

2. $\frac{4.9 \times 10^{-3}}{2.5 \times 10^{-4}}$

3. $\frac{5.8 \times 10^4}{5 \times 10^{-2}}$

4. $\frac{1.6 \times 10^5}{4 \times 10^{-4}}$

5. $\frac{8.6 \times 10^6}{1.6 \times 10^{-4}}$

6. $\frac{4.2 \times 10^{-2}}{6 \times 10^{-7}}$

7. $\frac{9 \times 10^6}{3 \times 10^2}$

8. $\frac{2.76 \times 10^7}{6.9 \times 10^5}$

9. $\frac{8 \times 10^5}{1.6 \times 10^2}$

10. $\frac{9.2 \times 10^{-8}}{2 \times 10^{-6}}$

11. $\frac{4.8 \times 10^4}{3 \times 10^{-5}}$

12. $\frac{1.161 \times 10^{-9}}{4.3 \times 10^{-6}}$

13. $\frac{4.625\ x\ 10^{10}}{1.25\ x\ 10^{4}}$

14. $\frac{2.376\ x\ 10^{-4}}{7.2\ x\ 10^{-8}}$

15. $\frac{8.74\ x\ 10^{-3}}{1.9\ x\ 10^{5}}$

16. $\frac{3.5\ x\ 10}{7\ x\ 10^{-9}}$

17. Jupiter, the largest planet in our solar system, is 7.8 x 10^{8} kilometers from the sun. The speed of light is 3 x 10^{5} kilometers per second. How many seconds does it take sunlight to reach Jupiter?

18. The total length of all drawers in a library card catalog is 5 x 10^{3} centimeters. If each card has a thickness of 2.5 x 10^{-2} centimeters, how many cards will fit in the card catalog?

Mixed Review

1. A company is making blocks. Each block is a cube and has a volume of $\frac{64}{343}$ ft^3. How long is each side of the building block?

2. $k^0(k^4)(k^{-6})$

3. $\frac{h^3}{h^{-6}}$

4 . $\frac{2}{3}v - 6 = 6 - \frac{2}{3}v$

5. Two thirds of a number reduced by 11 is equal to 4 more than the number. Find the number.