Algebra 1 Bellwork Monday, February 23, 2015

1. Find each. Write answer in both Scientific Notation and Standard Notation.

a. $(4.2 \times 10^3)(2.5 \times 10^2)$ b. $\frac{1.21 \times 10^4}{4.4 \times 10^9}$

Simplify each. Make sure answers don't have exponents that are zero or negative.

- 2. $\frac{-4c^{-3}d^2}{6k^{-1}m^0n^5}$ 3. $\left(\frac{5^{-2}x^7y^{-4}}{3w^5}\right)^{-1}$
- 4. $-A^2B^{-8}C^2A^{-9}B^5CB^3$

5.
$$(-2m^4n^{-3}p)(4^2m^5n^2p^6)$$

Evaluate each for A = -4 B = 6 C = 2Give fractional answers in reduced form (no decimals)

6. $A^{-2}BC^3$

$$\left(\frac{AB^{-2}}{C^{-2}}\right)^{-1}$$

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7.

a. $(4.2 \times 10^3)(2.5 \times 10^2)$ $1050,000 = 1.05 \times 10^6$ b. $\frac{1.21 \times 10^4}{4.4 \times 10^9}$ 2.75×10^{-6} = 0.00000275

Simplify each. Make sure answers don't have exponents that are zero or negative.

2. $\frac{-4c^{-3}d^2}{6k^{-1}m^0n^5} = \frac{-2d^2}{3c^{3}n^5}$

4.
$$-A^{2}B^{-8}C^{2}A^{-9}B^{5}CB^{3}$$

 $-A^{-7}B^{\circ}C^{3} = -\frac{C^{3}}{A^{7}}$

$$(3w^{2})^{7} (3.25w^{2}y^{2})$$

$$= \frac{75w^{5}y^{4}}{\chi^{7}}$$
5. $(-2m^{4}n^{-3}p)(4^{2}m^{5}n^{2}p^{6})$

$$= \frac{-32m^{9}p^{7}}{\sqrt{2}}$$

3. $\left(\frac{5^{-2}x^{7}y^{-4}}{2}\right)^{-1} = \left(\frac{x^{7}}{2}\right)^{-1}$

Evaluate each for A = -4 B = 6 C = 2Give fractional answers in reduced form (no decimals)

6.
$$A^{-2}BC^3 = \frac{BC^3}{A^2} = \frac{(6)(2)^3}{(-4)^2}$$

= $\frac{6\cdot8}{16} = \frac{48}{16} = \frac{3}{3}$

7.
$$\left(\frac{AB^{-2}}{C^{-2}}\right)^{-1} = \left(\frac{AC^2}{B^2}\right)^{-1} = \frac{B^2}{AC^2}$$

= $\frac{(6)^2}{(-4)(2)^2 - 36} = \left[-\frac{9}{4}\right]$

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