

<https://www.youtube.com/watch?v=50p6uERaxHI>

Multiplying and Dividing in Scientific Notation Notes

Name _____

Review: $x^2 \cdot x^2 = x^4$ $b^7 \cdot b^2 = b^9$ ADD EXPONENTS

$\frac{x^4}{x^2} = x^2$ $\frac{b^7}{b^2} = b^5$ SUBTRACT EXPONENTS

Ex. 1 $(3 \times 10^3) \cdot (4 \times 10^2)$

Ex. 2 $(-3.2 \times 10^4) \cdot (2 \times 10^{-1})$

Ex. 3 $(6 \times 10^4) \div (3 \times 10^2)$ or $\frac{(6 \times 10^4)}{(3 \times 10^2)}$

Multiplying Scientific Notation Steps

1. _____ coefficient numbers
2. _____ exponents of the tens
3. Make sure answer is in Scientific Notation

Practice.

1. $(2.5 \times 10^9) \cdot (3.2 \times 10^6)$

Dividing Scientific Notation Steps

1. _____ coefficient numbers
2. _____ exponents of the tens
3. Make sure answer is in Scientific Notation

2. $(4.2 \times 10^2) \cdot (3.43 \times 10^3)$

3. $(5.222 \times 10^8) \cdot (1.3 \times 10^3)$

4. $(7.3 \times 10^3) \div (2.5 \times 10^7)$

5. $\frac{(2.99 \times 10^2)}{(5.33 \times 10^5)}$