1) $(2x^2)(4x^3y^2) = 8x^5y^2$

2) $(-3a^2b)(6ab^4c) =$

$-18a^3b^5c$

3) $(7q^5)(12q^3r^5) =$

$84q^8r^5$

4) $(11c^8)(-10c^4d) =$

$-110c^{12}d$

5) $\left(9x^{10}z^{2}\right)\left(-1x^{5}y^{3}\right) =$ $-9x^{15}y^{3}z^{2}$

6) $\left(-8f^{6}g\right)\left(-7f^{2}g^{5}h\right) =$

$56f^{8}g^{6}h$

7) $\left(1.3a^6b^{11}c^5\right)\left(0.5a^2bc^3\right) =$ $0.65a^8b^{12}c^8$

8) $\left(-2x^2z\right)\left(-4y^2z\right)\left(-3xyz\right) =$ $-24x^3y^3z^3$

9) $\left(a^x b^y c^z\right)\left(a^r b^s c^t\right) =$

$a^{x+r} b^{y+s} c^{z+t}$

Simplify each.

1. $A^5 B^{-2} A^7 B^{-3}$ $A^{12} B^{-5} = \frac{A^{12}}{B^5}$

2. $(-2C^4 D^{-3})^2$ $= 4C^8 D^{-6}$ $= \frac{4C^8}{D^6}$

3. $\frac{W^6}{W^2}$ $W^4$

Grab a chromebook and in groups of 2-3, work on the following practice:

Practice 8.3-8.4 Worksheet (due at the end of the hour)

Exponents:
V.4 multiplication rules

Scientific Notation:
W.1 convert between SN and Std