

WHITE BOARDS!

Regrouping
Helps

1. $10x^7x^2$

2. $9m^2 \cdot 5m^{10}$

3. $12a^3b^4(-4a^5)(-5b)$

4. $(-3x)^2(-7x)^3$

NEGATIVES

$$-x^2 = -1x^2 = -1 \cdot x \cdot x$$

$$-2x^2$$

$$(-x)^2 = (-1x)^2 = -1x \cdot -1x = 1x^2 = x^2$$

$$(-1)^3 = (-1)(-1)(-1)$$

$$1 \cdot (-1) = -1$$

$$x^4 \cdot x^7 \cdot x^{10} = x^{4+7+10} = x^{21}$$

$$3^4 \cdot 3^7 \cdot 3^{10} = 3^{4+7+10} = 3^{21} = 1.04603532 \times 10^{10}$$

$$\textcircled{1} 2^5 \cdot 10^3 \cdot 2^7 \cdot 10^{15} \cdot 2^{100} = 2^{5+7+100} \cdot 10^{3+15}$$

$$2^{112} \cdot 10^{18}$$

Finish T7-1 WS

— TARGET 7-2 DIVISION — 3/2/15

$$\frac{\sqrt{15}}{\sqrt{15}} = 1 \quad \frac{\sqrt{5}}{\sqrt{5}} = 1 \quad \frac{2\cancel{10}X}{51} = 2X$$

$$\frac{15X}{102} = \frac{1X}{2}$$

$$\frac{\cancel{12}^4}{\sqrt{55}} = \frac{4}{5}$$

$$\frac{a^4}{a^2} = \frac{\cancel{a}^1 \cancel{a}^1 a \cdot a}{\cancel{a}^1 \cancel{a}^1} = \frac{a^2}{1} = a^2$$

$$\frac{a^2}{a^4} = \frac{\cancel{a}^1 \cancel{a}^1}{\cancel{a}^1 \cancel{a}^1 a a} = \frac{1}{a^2}$$

$$\frac{x^{5-2}}{x^2} = x^3$$

$$\frac{1x^{20}}{x^{30-20}} = \frac{1}{x^{10}}$$

Rule $\frac{a^m}{a^n} = a^{m-n}$

$$\frac{13x^7}{20x^{10-7}} = \frac{1}{2x^3}$$

$$\left(\frac{a^2}{b^3}\right)^4 = \frac{a^2}{b^3} \frac{a^2}{b^3} \frac{a^2}{b^3} \frac{a^2}{b^3} = \frac{a^8}{b^{12}}$$

$$\left(\frac{a^2}{b^3}\right)^4 = \frac{(a^2)^4}{(b^3)^4} = \frac{a^{2 \cdot 4}}{b^{3 \cdot 4}} = \frac{a^8}{b^{12}}$$