

**DO NOW:**

- Complete your **Warm Up Sheet**.
- Grab **YOUR calculator**.
- Turn in your **Tin Man Reflection**.

**Weekly Summary Tweet Question (walczakmath.com)**

Make a math problem involving snow and something we've learned this semester.

**HAPPY FACTOR DAY! 2/9/18**

**Essential Question:** How do you simplify with exponents?

**Homework:** **Tin Man Reflection due today!**

# Power

$$(X^n)^m = X^{n \cdot m}$$

$$(X^k)^m = X^{k \cdot m}$$

$$(2x^3y^4)^4 = 2^4 x^{3 \cdot 4} y^{4 \cdot 4} = 16x^{12}y^{16}$$

$$\left( \frac{-3m^2n^{-3}}{z^4} \right)^2 = \frac{(-3)^2 m^{2 \cdot 2} n^{-3 \cdot 2}}{z^{4 \cdot 2}} = \frac{9m^4n^{-6}}{z^8}$$