

**Bathroom breaks are to be  
taken before class!!**  
**Do NOT move the desk!!**  
**Turn your phone OFF!!**  
**Put your phone up!!**  
**Sit down!! Be quiet!!**  
**Prepare to work!!**  
**Keep your hands to yourself!!**

## Powers of Monomials

Pg 17

$$3) (x^3)^2$$

$$(x^3)(x^3)$$

$$(x \cdot x \cdot x)(x \cdot x \cdot x)$$

$$x^6$$

$$7) (2x^2)^3$$
$$2^3 x^6$$

$$9) (-3x^2)^2 \quad 11) \left(\frac{1}{2}x^4\right)^2 \quad 15) 2(3a^2)^3$$

$$(-3)^2 x^4 \quad \left(\frac{1}{2}\right)^2 x^8 \quad \underline{2(3^3)} a^6$$

$$9x^4 \quad 10) (-5y^3)^3 \quad 54a^2$$

$$(-5)^3 y^9$$

$$-125y^9$$

$$2 \cdot 3 \cdot 3 \cdot 3$$

$$6 \cdot 9$$

$$54$$

$$16) 4(-2x^3)^3$$

$$4(-2)^3 x^9$$

$$\frac{(4)(-2)(-2)(-2) x^9}{-32 x^9}$$

$$-32 x^9$$

$$17) \frac{1}{2}(4x^3)^2$$

$$\frac{1}{2}(4^2)x^6$$

$$\frac{(\frac{1}{2})(4)(4) x^6}{8 x^6}$$

$$8 x^6$$

$$\left( \frac{1}{2} \right) \left( \frac{4}{1} \right) \left( \frac{4}{1} \right)$$

$$\frac{16}{2} = 8$$

$$\begin{aligned} 10) \quad & \frac{1}{2} (2^3 t^6) \\ & \frac{1}{2} (3)^3 t^6 \\ & \frac{\left(\frac{1}{3}\right) \left(\frac{3}{1}\right) \left(\frac{3}{1}\right) \left(\frac{3}{1}\right) t^6}{9 t^6} \end{aligned}$$











