

# Division Properties of Exponents Bell Work

Simplify the following expression

1. 
$$\frac{x^{10}}{x^6}$$

2. 
$$\frac{a^3}{a^{10}}$$

3. 
$$\frac{b^4}{-(b^2)^2}$$

4. 
$$\frac{3a^2}{-a^2}$$

5. 
$$\frac{2a^2}{(2a)^3}$$

6. 
$$\frac{(4b)^3}{(4b^3)^2}$$

Evaluate the following using properties of power.

7. 
$$\frac{3b(2a)^2}{12ab^2} = \frac{12a^2b}{12ab^2}$$

8. 
$$\frac{5x^2(3y)^2}{5xy^2}$$

9. 
$$\left(\frac{2a}{3b}\right)^2 \cdot \frac{12b^3}{8a^2}$$

10. 
$$\left(\frac{2d}{5c}\right)^2 \cdot (5c)$$