

Key

• Simplify.

1)  $\frac{5^2 x^4}{5 x^2} = 5x^2$

2)  $\frac{(-2)^3}{(-2)^3} = 1$

3)  $\frac{(x^2)^4}{x^3} = x^5$

4)  $\frac{24x^3yz^9}{21xy^5z^{12}} = \frac{8x^2}{7y^4z^3} = \frac{8x^2}{7xy^4z^3}$

5)  $\frac{3^4}{3^2} = 3^2 = 9$

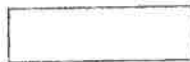
6)  $\frac{2x^4}{10x^8} = \frac{1}{5x^4}$

7)  $(g^3)^4 \cdot (g^2)^5 = g^{22}$

8)  $-6c^5 \cdot -4c^2 = 24c^7$

9) Find the area for the given rectangle. Show work.

5d



4d + 7

$20d^2 + 35d$

10) Compare. Use  $<$ ,  $>$ , or  $=$ 

$(3^2)^5 \underline{>} 3^8 \cdot 3$