

Name \_\_\_\_\_

Date \_\_\_\_\_ Per \_\_\_\_\_ A# \_\_\_\_\_

## Exponents (part 5)

#	Original Form	Factored Form	Simplified Form
1	$(x^2)^4$		
2	$\frac{15x^2y^5}{6xy^3}$		
3	$(x^2y)(xy^4)$		
4	$x^2 \cdot x^{-5}$		
5	$(-4w^2x)(-5wx^7)$		
6	$\frac{7x^{-3}}{14x^4}$		
7	$(-3x^5)^3$		
8	$\left(\frac{-15y^4}{3y}\right)^2$		
9	$(xyz)^0$		
10	$15x^2 \cdot 4x^{-2}$		
11	$(2abc)^5 \cdot a^{-2}c^{-3}$		
12	$\left(\frac{x}{x}\right)^{-4}$		
13	$\frac{4x^{-2}y^5}{16x^3y^{-6}}$		

14. The length of a rectangle is four times its width. If the area is  $100 \text{ m}^2$  what is the length of the rectangle?

15. One leg of a right triangle is 18 cm and its area is 108 square cm. Find its *perimeter*.