

Name \_\_\_\_\_

## MATH PRACTICE PROBLEMS

Cycle Two Year One

WORKSHEET #7

ALGEBRA: Exponents - Summary

Simplify:

1  $10^2 \times 10^3 =$  \_\_\_\_\_

2  $(10^2)^3 =$  \_\_\_\_\_

3  $\frac{20^{-5}}{20^3} =$  \_\_\_\_\_

4  $\frac{1}{(x+5)^{-3}} =$  \_\_\_\_\_

Notice the addition sign here! Be careful!

5  $\frac{4^4 b^8}{4^8 b^7} =$  \_\_\_\_\_

6  $(6^2)^{-4} =$  \_\_\_\_\_

7  $(x^2 y^{-3})^{-3} =$  \_\_\_\_\_

8  $(5xy)^3 =$  \_\_\_\_\_

9  $(-12)^2 =$  \_\_\_\_\_

10  $\left(\frac{3x}{4y}\right)^2 =$  \_\_\_\_\_

11  $(-12)^3 =$  \_\_\_\_\_

12  $\frac{16a^3 b}{4a^2 b^2} =$  \_\_\_\_\_

1  $(3m^2)(2m^4) =$  \_\_\_\_\_

2  $(4x^3)(x^5) =$  \_\_\_\_\_

3  $(-5a^4)(3a^2) =$  \_\_\_\_\_

4  $(5x)(-2x) =$  \_\_\_\_\_

5  $(3a^3 b^2)(4ab) =$  \_\_\_\_\_

6  $(4x)(-2x) =$  \_\_\_\_\_

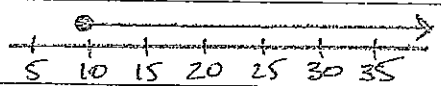
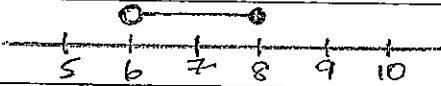
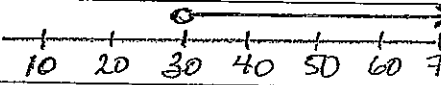
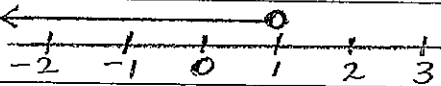
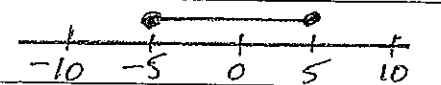
7  $(2b^2 c^3)(3b^5 c^5) =$  \_\_\_\_\_

8  $(4b^2)(4b^3) =$  \_\_\_\_\_

9  $(-2a^3)(7a^4) =$  \_\_\_\_\_

10  $(10x^2)(5x^3) =$  \_\_\_\_\_

MATH	NAME:
INTERVAL NOTATION PRACTICE	DATE:

	INEQUALITY	GRAPH	INTERVAL NOTATION
1.	$x \leq 5$		
2.			$[2, \infty$
3.			
4.			$[5, 10]$
5.	$-1 < x < 4$		
6.			$]4, 8]$
7.	$x < -5$		
8.	"x is any number"		
9.			
10.			
11.	"x is greater than -2"		
12.	"x is greater than or equal to 1"		
13.			
14.	$x > -2$		
15.	$-2 \leq x \leq 8$		
16.			
17.	$3 \leq x < 7$		
18.			$]0, 2[$
19.	$0 < x \leq 3$		
20.	$x \geq -1$		