

Name: \_\_\_\_\_



## Evaluating Expressions (w/ exponents) (two variables)

**Directions:** Evaluate each expression when  $x = 8$  and  $y = 2$ .

1.  $x^2 + y =$  \_\_\_\_\_

7.

$10y^2 - 2x =$  \_\_\_\_\_

2.  $5x^2 =$  \_\_\_\_\_

8.

$2x^2 + 9y =$  \_\_\_\_\_

3.  $4x^3 - 2y^2 =$  \_\_\_\_\_

9.

$\frac{5x^2}{y^3} =$  \_\_\_\_\_

4.  $\frac{x^3}{y} + 5 =$  \_\_\_\_\_

10.

$6y^3 - 2y^2 =$  \_\_\_\_\_

5.  $9x^2y^2 =$  \_\_\_\_\_

11.

$\frac{x^2}{4} + 3y^2 =$  \_\_\_\_\_

6.  $\frac{x^2}{y^3} =$  \_\_\_\_\_

12.

$5y^3 + 4x^2 =$  \_\_\_\_\_



## ANSWER KEY

1.  $x^2 + y = 66$

7.  $10y^2 - 2x = 24$

2.  $5x^2 = 320$

8.  $2x^2 + 9y = 110$

3.  $4x^3 - 2y^2 = 2,040$

9.  $\frac{5x^2}{y^3} = 312$

4.  $\frac{x^3}{y} + 5 = 261$

10.  $6y^3 - 2y^2 = 40$

5.  $9x^2y^2 = 2,304$

11.  $\frac{x^2}{4} + 3y^2 = 28$

6.  $\frac{x^2}{y^3} = 8$

12.  $5y^3 + 4x^2 = 296$