

Name: \_\_\_\_\_ Grade: \_\_\_\_\_ Date: \_\_\_\_\_

## Rational Exponents

Determine the value of each of the following.

1)  $125^{\frac{1}{3}} =$  \_\_\_\_\_

2)  $100^{\frac{3}{2}} =$  \_\_\_\_\_

3)  $512^{\frac{2}{3}} =$  \_\_\_\_\_

4)  $216^{\frac{1}{3}} =$  \_\_\_\_\_

5)  $81^{\frac{1}{2}} =$  \_\_\_\_\_

6)  $64^{\frac{2}{3}} =$  \_\_\_\_\_

7)  $27^{\frac{1}{3}} =$  \_\_\_\_\_

8)  $343^{\frac{2}{3}} =$  \_\_\_\_\_