

Name _____ Date _____

Quiz: Laws of Rational Exponents

Find the value of each of the following.

1. $(625)^{-1/4}$

2. $((14641)^{1/2})^{3/2}$

3. $((343)^{-3/2})^2$

4. $(32)^{-3/5}$

5. $(216)^{-2/3}$

6. $((-6/3)^5)^2$

7. $(z^{-3})^{-4/3}$

8. $(512)^{5/9}$

9. If $f(x) = x^{-2} + 2x^{-1/3}$, find $f(8)$

10. If $f(x) = x^{7/3}$, find $f(4)$

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%