

**Chapter
5****Performance Task** (continued)**Turning the Tables**

In this chapter, you have used properties of rational exponents and functions to find an answer to the problem. Using those same properties, can you find a problem to the answer? How many problems can you find?

For each answer, create an equivalent expression that requires the specified property of exponents to simplify.

Answer 1: $8^{2/9}$

Answer 2: $\frac{x^4}{y^2}$

Answer 3: $\frac{64z^6}{81}$

- a. Product of Powers
- b. Power of a Power
- c. Power of a Product
- d. Negative Exponent
- e. Zero Exponent
- f. Quotient of Powers
- g. Power of a Quotient