Name	#
Date	Pd.

Lesson 8-2-3 Learning Log

On a separate piece of paper, explain each law of exponents that you have learned in this chapter. For each law, please provide an example.

Laws of exponents:

- Multiplying numbers with exponents
- A power raised to a power
- Dividing numbers with exponents
 - You may use expanded form to explain how to simplify.
- Negative exponents

Additional Practice

Simplify. Write in decimal form.

1.
$$10^{-3}$$

$$3. 10^{-5}$$

$$4. 10^{-2}$$

Simplify.

$$14.6^{-3}$$

15.
$$10 - (3 + 2)^0 + 2^{-1}$$

16.
$$15 + 6^0 + 3^{-2}$$

17.
$$6(8-2)^0+4^{-2}$$

18.
$$2^{-2} + 4^{-1}$$

19.
$$3(1+2)^{-2} + 9^{-1} + 12^{0}$$

20.
$$9^0 + 64(3+5)^{-2}$$

- 21. One milliliter equals 10^{-3} liter. Simplify 10^{-3} .
- 22. The volume of a cube is 10⁶ cubic feet. Simplify 10⁶.