Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_ Date \_\_\_\_\_\_\_\_\_

**Properties of Exponents REVIEW**

**Directions**: Simplify the Expressions

1. ($52^{3})$($ 52^{9})$
2. $(7^{18})$3
3. $\frac{23^{35}}{23^{15}}$
4. 1050
5. (11 ● 4)6
6. ($\frac{8}{9}$)5
7. $\frac{21^{3}}{21^{6}}$
8. If b is any positive number, how can the given expression be simplified?

(b2)(b6)(b3)

1. The last problem on Mike’s mast test is shown below.

(-16)7 x (-16)2

How could Mike’s write out this expression?

1. Evaluate the expression

($\frac{1}{7})$-2 + √36 ● 10 - 5

1. Which represents $\frac{a^{10}}{a^{20}}\frac{b^{8}}{b^{3}}$ in simplest form?