EXPONENTS AND FRACTIONS

1.	An	exponent	is	а	short	wav	of	writing	а	repeated	
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2. 6 means ____ factors of ____.

3. Simplify 6. _____ In the same way

The parentheses are used to show that $\underline{\text{all}}$ of the fraction is a factor.

3 $3 \cdot 9$ means or 4 4

A WORD OF WARNING:

When you write the same fraction as a factor, you $\underline{\text{will}}$ have common denominators, but you still use the rule for multiplication: multiply the denominators as well as the numerators.

REMEMBER: We $\underline{\text{had}}$ to have common denominators to $\underline{\text{add}}$ or $\underline{\text{subtract}}$, but we just kept $\underline{\text{that}}$ denominator.

99 9 9

In multiplication, we do not have to have a common denominator, but if we do, we multiply the denominators.

$$\frac{3}{8} \cdot \frac{3}{8} = \frac{3 \cdot 3}{8 \cdot 8} = \frac{9}{64}$$
MULTIPLY:

4. - 8. Simplify:

2522333 21237. 22.22 8. 2 __2262242 2102

ANSWERS:

- 1. multiplication
- 2. 3 factors of 6
- 3. 216 (It's 666· ·)
 - 25
- 5. <u>—</u> 64
- $\begin{array}{c} 2 \\ 6. \\ \hline 27 \end{array}$

- 8. $\frac{1}{1000}$