Saddleback College Math Homework Set Resources
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Introduction to exponents

1. Write the following multiplication problems using an exponent.

a) $5 \cdot 5 \cdot 5 \cdot 5 = 5^4$

b) $3 \cdot 3 \cdot 3 \cdot 3 =$

c) $2x \cdot 2x \cdot 2x \cdot 2x \cdot 2x =$

d) $(-3) \cdot (-3) \cdot (-3) \cdot (-3) =$

e) $(x+1) \cdot (x+1) \cdot (x+1) \cdot (x+1) =$

f) $(x+y-z) \cdot (x+y-z) =$

2. Write the following math statements as word statements.

a) $3^2 \rightarrow$ "Three raised to the second power."
-or-
"Three squared"

b) 4^3

c) 2^4

d) x^5

e) $2+3^2$

f) $-2-2^3$

3. Perform the multiplication.

a) $2^2 \cdot 2^3$ b) $x^2 \cdot x^3$ c) $y^3 \cdot y^5$

d) $3 \cdot 3^4$ e) $3^0 \cdot 3^2$ f) $0 \cdot 3^2$

g) $(523)^0$ h) $x \cdot x$ i) $a \cdot a \cdot a$

4. Find the following sums.

a) $x+x$ b) $a+a+a$ c) $2+2+2$

d) x^2+x^2 e) $a^2+a^2+a^2$ f) $2^2+2^2+2^2$