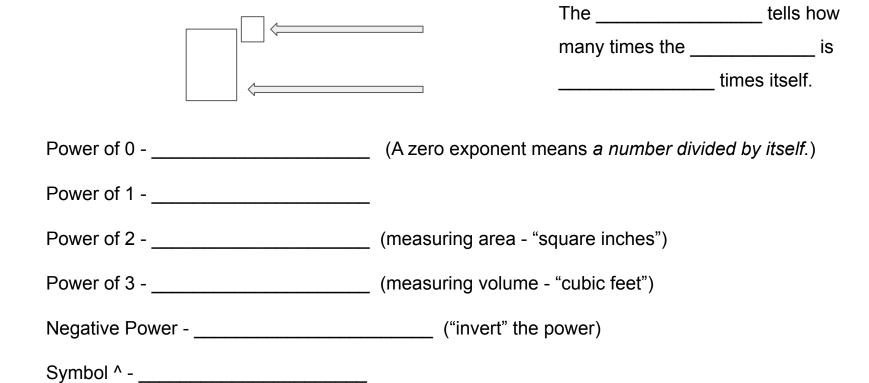
EXPONENTS

- Raised to a power of...
- Base and Exponent



Practice

- 1. $3^2 =$
- $2. 5^{\circ} =$
- $3. 12^{1} =$
- 4. $n^0 =$
- 5. 2⁴=
- 6. 3^3=
- 7. 5^-2=
- 8. 4^-3=
- 9. $3^2+5^3=$
- 10. $3^4-3^2=$

Official GED Calculator: TI-30XS



Note: When you see an exponent on the outside of parentheses, it means that everything inside needs to be raised to that power. (multiply the inside power by the outside power)

Examples:

$$(mn)^2 = m^2n^2$$

$$(3x)^2 = 9x^2$$

$$(5x^2)^3 = 125x^6$$

$$(\frac{3}{4})^2 = \frac{3^2}{4^2} = \frac{9}{16}$$

Practice Problems:

1.
$$(xy)^3$$

2.
$$(a^2b^3)^2$$

3.
$$(2x^4)^3$$

4.
$$(\frac{1}{2})^3$$

5.
$$(3^2 \text{m}^3)$$

Do we square the negative?

There is a difference between -3^2 and $(-3)^2$