

Associative Property:

Distributive Property of $\qquad$ over $\qquad$ -

## Additive Identity Property:

Multiplicative Identity Property:

Additive Inverse Property:

## PROPERTIES OF EQUALITY

Addition Property of Equality:

Multiplication Property of Equality:

Cancellation Property of Addition:

Cancellation Property of Multiplication:

## PROPERTIES OF ZERO

Multiplication Property of Zero:

Division Property of Zero:

Division by Zero is Undefined:

## PROPERTIES OF NEGATION

Multiplication by -1 :

Placement of Negative Signs:

Product of Two Opposites:
(1) EXAMPLE: Simplify and state the properties used.
a) $10(2 \mathrm{x})=$
b) $17-17=$
c) $(-3 / 4)(-4 / 3)=$
d) $6(x+3)=$
e) The additive inverse of -16 is $\qquad$ the multiplicative inverse is $\qquad$ .
f) The additive inverse of $-2 / 3$ is $\qquad$ the multiplicative inverse is $\qquad$ .
g) $12(\$ 19.95)=$
h) BEWARE $(a+b)^{2}=$

