

Name: _____

Associative Property: Working With Variables

Part 1: Rewrite each of the following problems using the associative property.

Example: $(a+2)+ 5$

Answer: $a + (2+5)$

A) $x + (3+5)$

B) $9 + (4+y)$

C) $(7+b) + 6$

D) $(cx10) \times 3$

E) $8 \times (2xx)$

Part 2: Simplify each equation below using the associative property.

Example: $3 + (2+m) =$

Answer: $(3+2) + m$
 $5 + m$

A) $(y+5) + 7$

B) $6 + (1+z)$

C) $(a+8) + 10$

D) $3 \times (5xt)$

E) $(bx9) \times 4$

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A) $x + (3+5)$

$(x+3) + 5$

B) $9 + (4+y)$

$(9+4) + y$

C) $(7+b) + 6$

$7 + (b+6)$

D) $(cx10) \times 3$

$c \times (10 \times 3)$

E) $8 \times (2 \times x)$

$(8 \times 2) \times x$

Part 2: Simplify each equation below using the associative property.

Example: $3 + (2+m) =$

Answer: $(3+2) + m$
 $5 + m$

A) $(y+5) + 7$

$y + (5+7)$
 $y + 12$

B) $6 + (1+z)$

$(6+1) + z$
 $7 + z$

C) $(a+8) + 10$

$a + (8+10)$
 $a + 18$

D) $3 \times (5 \times t)$

$(3 \times 5) \times t$
 $15 \times t$ or $15t$

E) $(b \times 9) \times 4$

$b \times (9 \times 4)$
 $b \times 36$