

# Associative Law of Addition (H)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Re-write each expression with different parentheses to change the order of operations.

Example:  $(8 + 5) + 12 = 8 + (5 + 12)$

1.  $5 + (1 + 10) =$
2.  $10 + (6 + 18) =$
3.  $(25 + 7) + 20 =$
4.  $(23 + 42) + 1 =$
5.  $38 + (7 + 96) =$
6.  $1 + (12 + (7 + 6)) =$
7.  $(20 + (14 + 7)) + 4 =$
8.  $30 + ((11 + 42) + 13) =$
9.  $(20 + (30 + 63)) + 75 =$
10.  $67 + (7 + (95 + 42)) =$

Are the expressions in each question equal? Check a few to confirm.

# Associative Law of Addition (H) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Re-write each expression with different parentheses to change the order of operations.

Example:  $(8 + 5) + 12 = 8 + (5 + 12)$

1.  $5 + (1 + 10) = (5 + 1) + 10$

2.  $10 + (6 + 18) = (10 + 6) + 18$

3.  $(25 + 7) + 20 = 25 + (7 + 20)$

4.  $(23 + 42) + 1 = 23 + (42 + 1)$

5.  $38 + (7 + 96) = (38 + 7) + 96$

6.  $1 + (12 + (7 + 6)) = ((1 + 12) + 7) + 6$   
 $= (1 + 12) + (7 + 6) = (1 + (12 + 7)) + 6 = 1 + ((12 + 7) + 6)$

7.  $(20 + (14 + 7)) + 4 = ((20 + 14) + 7) + 4$   
 $= (20 + 14) + (7 + 4) = 20 + ((14 + 7) + 4) = 20 + (14 + (7 + 4))$

8.  $30 + ((11 + 42) + 13) = ((30 + 11) + 42) + 13$   
 $= (30 + 11) + (42 + 13) = (30 + (11 + 42)) + 13 = 30 + (11 + (42 + 13))$

9.  $(20 + (30 + 63)) + 75 = ((20 + 30) + 63) + 75$   
 $= (20 + 30) + (63 + 75) = 20 + ((30 + 63) + 75) = 20 + (30 + (63 + 75))$

10.  $67 + (7 + (95 + 42)) = ((67 + 7) + 95) + 42$   
 $= (67 + 7) + (95 + 42) = (67 + (7 + 95)) + 42 = 67 + ((7 + 95) + 42)$

Are the expressions in each question equal? Check a few to confirm.