

Associative Law of Addition (J)

Name: _____

Date: _____

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

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

1. $2 + (8 + 5) =$

2. $(6 + 13) + 16 =$

3. $27 + (18 + 6) =$

4. $(48 + 6) + 18 =$

5. $(100 + 62) + 14 =$

6. $(9 + (5 + 10)) + 1 =$

7. $24 + ((18 + 2) + 11) =$

8. $(44 + 11) + (22 + 32) =$

9. $(80 + 8) + (39 + 64) =$

10. $(67 + (11 + 83)) + 38 =$

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

Associative Law of Addition (J) Answers

Name: _____

Date: _____

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

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

- $2 + (8 + 5) = (2 + 8) + 5$
- $(6 + 13) + 16 = 6 + (13 + 16)$
- $27 + (18 + 6) = (27 + 18) + 6$
- $(48 + 6) + 18 = 48 + (6 + 18)$
- $(100 + 62) + 14 = 100 + (62 + 14)$
- $(9 + (5 + 10)) + 1 = ((9 + 5) + 10) + 1$
 $= (9 + 5) + (10 + 1) = 9 + ((5 + 10) + 1) = 9 + (5 + (10 + 1))$
- $24 + ((18 + 2) + 11) = ((24 + 18) + 2) + 11$
 $= (24 + 18) + (2 + 11) = (24 + (18 + 2)) + 11 = 24 + (18 + (2 + 11))$
- $(44 + 11) + (22 + 32) = ((44 + 11) + 22) + 32$
 $= (44 + (11 + 22)) + 32 = 44 + ((11 + 22) + 32) = 44 + (11 + (22 + 32))$
- $(80 + 8) + (39 + 64) = ((80 + 8) + 39) + 64$
 $= (80 + (8 + 39)) + 64 = 80 + ((8 + 39) + 64) = 80 + (8 + (39 + 64))$
- $(67 + (11 + 83)) + 38 = ((67 + 11) + 83) + 38$
 $= (67 + 11) + (83 + 38) = 67 + ((11 + 83) + 38) = 67 + (11 + (83 + 38))$

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