

Associative Law of Addition (D)

Name: _____

Date: _____

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

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

1. $2 + (6 + 8) =$
2. $(20 + 3) + 10 =$
3. $17 + (21 + 5) =$
4. $(38 + 2) + 26 =$
5. $(74 + 66) + 16 =$
6. $((11 + 7) + 3) + 4 =$
7. $((20 + 18) + 5) + 9 =$
8. $(24 + 32) + (42 + 6) =$
9. $90 + ((24 + 26) + 62) =$
10. $(79 + 32) + (70 + 12) =$

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

Associative Law of Addition (D) Answers

Name: _____

Date: _____

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

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

- $2 + (6 + 8) = (2 + 6) + 8$
- $(20 + 3) + 10 = 20 + (3 + 10)$
- $17 + (21 + 5) = (17 + 21) + 5$
- $(38 + 2) + 26 = 38 + (2 + 26)$
- $(74 + 66) + 16 = 74 + (66 + 16)$
- $((11 + 7) + 3) + 4 = (11 + 7) + (3 + 4)$
 $= (11 + (7 + 3)) + 4 = 11 + ((7 + 3) + 4) = 11 + (7 + (3 + 4))$
- $((20 + 18) + 5) + 9 = (20 + 18) + (5 + 9)$
 $= (20 + (18 + 5)) + 9 = 20 + ((18 + 5) + 9) = 20 + (18 + (5 + 9))$
- $(24 + 32) + (42 + 6) = ((24 + 32) + 42) + 6$
 $= (24 + (32 + 42)) + 6 = 24 + ((32 + 42) + 6) = 24 + (32 + (42 + 6))$
- $90 + ((24 + 26) + 62) = ((90 + 24) + 26) + 62$
 $= (90 + 24) + (26 + 62) = (90 + (24 + 26)) + 62 = 90 + (24 + (26 + 62))$
- $(79 + 32) + (70 + 12) = ((79 + 32) + 70) + 12$
 $= (79 + (32 + 70)) + 12 = 79 + ((32 + 70) + 12) = 79 + (32 + (70 + 12))$

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