

Associative Law of Addition (B)

Name: _____

Date: _____

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

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

1. $3 + (8 + 5) =$

2. $5 + (11 + 17) =$

3. $26 + (5 + 20) =$

4. $(4 + 28) + 40 =$

5. $(99 + 36) + 7 =$

6. $6 + (11 + (8 + 3)) =$

7. $(17 + 24) + (2 + 11) =$

8. $((42 + 22) + 10) + 31 =$

9. $((59 + 34) + 18) + 80 =$

10. $71 + ((45 + 83) + 4) =$

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

Associative Law of Addition (B) Answers

Name: _____

Date: _____

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

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

- $3 + (8 + 5) = (3 + 8) + 5$
- $5 + (11 + 17) = (5 + 11) + 17$
- $26 + (5 + 20) = (26 + 5) + 20$
- $(4 + 28) + 40 = 4 + (28 + 40)$
- $(99 + 36) + 7 = 99 + (36 + 7)$
- $6 + (11 + (8 + 3)) = ((6 + 11) + 8) + 3$
 $= (6 + 11) + (8 + 3) = (6 + (11 + 8)) + 3 = 6 + ((11 + 8) + 3)$
- $(17 + 24) + (2 + 11) = ((17 + 24) + 2) + 11$
 $= (17 + (24 + 2)) + 11 = 17 + ((24 + 2) + 11) = 17 + (24 + (2 + 11))$
- $((42 + 22) + 10) + 31 = (42 + 22) + (10 + 31)$
 $= (42 + (22 + 10)) + 31 = 42 + ((22 + 10) + 31) = 42 + (22 + (10 + 31))$
- $((59 + 34) + 18) + 80 = (59 + 34) + (18 + 80)$
 $= (59 + (34 + 18)) + 80 = 59 + ((34 + 18) + 80) = 59 + (34 + (18 + 80))$
- $71 + ((45 + 83) + 4) = ((71 + 45) + 83) + 4$
 $= (71 + 45) + (83 + 4) = (71 + (45 + 83)) + 4 = 71 + (45 + (83 + 4))$

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