Associative Law of Addition (I)

Name: _____ Date: _____

Re-write each expression with different parentheses to change the order of operations.
Example: $(8 + 5) + 12 = 8 + (5 + 12)$

1. $(5 + 9) + 3 =$

2. $13 + (17 + 4) =$

3. $30 + (17 + 3) =$

4. $(22 + 45) + 1 =$

5. $77 + (47 + 26) =$

6. $6 + ((11 + 2) + 7) =$

7. $11 + ((3 + 14) + 21) =$

8. $(48 + (7 + 35)) + 24 =$

9. $42 + (74 + (17 + 63)) =$

10. $((62 + 47) + 80) + 24 =$

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

Associative Law of Addition (I) Answers

Name: _____ Date: _____

Re-write each expression with different parentheses to change the order of operations.
Example: $(8 + 5) + 12 = 8 + (5 + 12)$

1. $(5 + 9) + 3 = 5 + (9 + 3)$

2. $13 + (17 + 4) = (13 + 17) + 4$

3. $30 + (17 + 3) = (30 + 17) + 3$

4. $(22 + 45) + 1 = 22 + (45 + 1)$

5. $77 + (47 + 26) = (77 + 47) + 26$

6. $6 + ((11 + 2) + 7) = ((6 + 11) + 2) + 7$
$= (6 + 11) + (2 + 7) = (6 + (11 + 2)) + 7 = 6 + (11 + (2 + 7))$

7. $11 + ((3 + 14) + 21) = ((11 + 3) + 14) + 21$
$= (11 + 3) + (14 + 21) = (11 + (3 + 14)) + 21 = 11 + (3 + (14 + 21))$

8. $(48 + (7 + 35)) + 24 = ((48 + 7) + 35) + 24$
$= (48 + 7) + (35 + 24) = 48 + ((7 + 35) + 24) = 48 + (7 + (35 + 24))$

9. $42 + (74 + (17 + 63)) = ((42 + 74) + 17) + 63$
$= (42 + 74) + (17 + 63) = (42 + (74 + 17)) + 63 = 42 + ((74 + 17) + 63)$

10. $((62 + 47) + 80) + 24 = (62 + 47) + (80 + 24)$
$= (62 + (47 + 80)) + 24 = 62 + ((47 + 80) + 24) = 62 + (47 + (80 + 24))$

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