Associative Law of Addition (E)

Name: _____ Date: _____

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

1. $(6 + 8) + 2 =$

2. $(2 + 20) + 8 =$

3. $12 + (29 + 8) =$

4. $(46 + 24) + 16 =$

5. $(19 + 66) + 98 =$

6. $7 + (11 + (5 + 2)) =$

7. $17 + ((21 + 5) + 7) =$

8. $27 + (42 + (4 + 15)) =$

9. $46 + (54 + (80 + 1)) =$

10. $(6 + 95) + (57 + 40) =$

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

Associative Law of Addition (E) Answers

Name: _____ Date: _____

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

1. $(6 + 8) + 2 = 6 + (8 + 2)$

2. $(2 + 20) + 8 = 2 + (20 + 8)$

3. $12 + (29 + 8) = (12 + 29) + 8$

4. $(46 + 24) + 16 = 46 + (24 + 16)$

5. $(19 + 66) + 98 = 19 + (66 + 98)$

6. $7 + (11 + (5 + 2)) = ((7 + 11) + 5) + 2$
$= (7 + 11) + (5 + 2) = (7 + (11 + 5)) + 2 = 7 + ((11 + 5) + 2)$

7. $17 + ((21 + 5) + 7) = ((17 + 21) + 5) + 7$
$= (17 + 21) + (5 + 7) = (17 + (21 + 5)) + 7 = 17 + (21 + (5 + 7))$

8. $27 + (42 + (4 + 15)) = ((27 + 42) + 4) + 15$
$= (27 + 42) + (4 + 15) = (27 + (42 + 4)) + 15 = 27 + ((42 + 4) + 15)$

9. $46 + (54 + (80 + 1)) = ((46 + 54) + 80) + 1$
$= (46 + 54) + (80 + 1) = (46 + (54 + 80)) + 1 = 46 + ((54 + 80) + 1)$

10. $(6 + 95) + (57 + 40) = ((6 + 95) + 57) + 40$
$= (6 + (95 + 57)) + 40 = 6 + ((95 + 57) + 40) = 6 + (95 + (57 + 40))$

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