

Associative Law of Addition (G)

Name: _____

Date: _____

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

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

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

2. $8 + (18 + 2) =$

3. $18 + (2 + 27) =$

4. $48 + (13 + 28) =$

5. $69 + (46 + 33) =$

6. $((3 + 9) + 6) + 10 =$

7. $8 + ((16 + 24) + 1) =$

8. $8 + ((19 + 40) + 36) =$

9. $40 + ((51 + 8) + 84) =$

10. $((34 + 91) + 10) + 58 =$

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

Associative Law of Addition (G) Answers

Name: _____

Date: _____

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

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

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

2. $8 + (18 + 2) = (8 + 18) + 2$

3. $18 + (2 + 27) = (18 + 2) + 27$

4. $48 + (13 + 28) = (48 + 13) + 28$

5. $69 + (46 + 33) = (69 + 46) + 33$

6. $((3 + 9) + 6) + 10 = (3 + 9) + (6 + 10)$
 $= (3 + (9 + 6)) + 10 = 3 + ((9 + 6) + 10) = 3 + (9 + (6 + 10))$

7. $8 + ((16 + 24) + 1) = ((8 + 16) + 24) + 1$
 $= (8 + 16) + (24 + 1) = (8 + (16 + 24)) + 1 = 8 + (16 + (24 + 1))$

8. $8 + ((19 + 40) + 36) = ((8 + 19) + 40) + 36$
 $= (8 + 19) + (40 + 36) = (8 + (19 + 40)) + 36 = 8 + (19 + (40 + 36))$

9. $40 + ((51 + 8) + 84) = ((40 + 51) + 8) + 84$
 $= (40 + 51) + (8 + 84) = (40 + (51 + 8)) + 84 = 40 + (51 + (8 + 84))$

10. $((34 + 91) + 10) + 58 = (34 + 91) + (10 + 58)$
 $= (34 + (91 + 10)) + 58 = 34 + ((91 + 10) + 58) = 34 + (91 + (10 + 58))$

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