Order of Operations With Parentheses, Brackets and Braces - ANSWER KEY

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 6 of 10

Evaluate. Work from the inside out: parentheses ( ), then brackets [ ], then braces { }. Inside each, multiply and divide from left to right, then add and subtract.

Part A: Parentheses and brackets

1. [8 + (6 + 3)] – 13 = **4**
2. [(9 + 8) + 4] + 11 = **32**
3. [(19 + 4) – 6] + 10 = **27**
4. [(2 + 9) + 8] + 9 = **28**
5. [15 + (10 + 9)] + 7 = **41**
6. 5 + [(2 ÷ 2) + 7] = **13**

Part B: Parentheses, brackets and braces

7. 2 × {4 ÷ [(10 – 5) ÷ 5]} = **8**
8. 5 + {5 × [(8 ÷ 1) – 7]} = **10**
9. 9 × {11 + [2 + (5 × 1)]} = **162**
10. 6 + {4 × [10 + (7 × 8)]} = **270**
11. 12 + {14 + [11 × (18 – 9)]} = **125**
12. 10 + {[12 × (11 ÷ 1)] – 9} = **133**
13. {[10 – (9 ÷ 9)] × 6} – 7 = **47**
14. {[2 + (6 ÷ 2)] × 8} + 15 = **55**