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

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 8 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. [4 + (16 – 3)] + 9 = **26**
2. [(7 + 4) – 8] × 8 = **24**
3. 12 ÷ [5 ÷ (15 ÷ 3)] = **12**
4. [(10 – 2) + 12] – 14 = **6**
5. [(16 + 10) – 5] – 8 = **13**
6. 9 + [(15 × 2) – 11] = **28**

Part B: Parentheses, brackets and braces

7. {3 × [(9 × 9) + 9]} – 7 = **263**
8. {6 + [(18 + 6) × 14]} – 6 = **336**
9. 4 + {[(10 + 10) + 7] – 8} = **23**
10. {[14 × (5 × 10)] ÷ 2} + 3 = **353**
11. {5 × [13 × (9 – 2)]} + 2 = **457**
12. 2 × {[(20 + 6) + 7] × 7} = **462**
13. {7 + [(19 – 3) × 14]} – 8 = **223**
14. 12 + {13 + [(5 + 8) + 12]} = **50**