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

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 1 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. 14 + [6 × (19 + 2)] = **140**
2. 3 × [(4 + 9) + 6] = **57**
3. [10 × (19 – 1)] × 2 = **360**
4. 6 – [3 ÷ (3 – 2)] = **3**
5. 15 + [15 × (19 + 4)] = **360**
6. 12 + [13 × (6 – 2)] = **64**

Part B: Parentheses, brackets and braces

7. {2 + [9 × (19 × 5)]} + 9 = **866**
8. {13 × [(19 + 1) – 10]} – 14 = **116**
9. {14 + [(19 × 5) – 7]} + 12 = **114**
10. 11 + {3 + [(5 + 1) × 2]} = **26**
11. {5 × [5 × (16 – 10)]} – 7 = **143**
12. {13 ÷ [5 + (14 – 6)]} × 6 = **6**
13. {[12 ÷ (3 – 2)] – 5} + 5 = **12**
14. {[(4 + 8) × 13] ÷ 13} ÷ 6 = **2**