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

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 9 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. 9 + [(2 × 8) – 6] = **19**
2. 15 + [8 + (7 + 1)] = **31**
3. [(8 × 7) + 5] × 9 = **549**
4. [12 ÷ (9 – 7)] × 6 = **36**
5. 7 + [(5 × 6) + 2] = **39**
6. 5 × [7 × (3 + 6)] = **315**

Part B: Parentheses, brackets and braces

7. {5 + [(17 – 4) – 9]} × 15 = **135**
8. {2 + [(18 × 8) ÷ 4]} + 4 = **42**
9. 2 × {10 × [(20 – 8) ÷ 2]} = **120**
10. {5 + [(6 – 2) – 2]} × 13 = **91**
11. 4 + {14 + [7 × (9 – 6)]} = **39**
12. {[(17 + 10) – 11] – 7} + 2 = **11**
13. 6 × {5 + [13 + (17 + 5)]} = **240**
14. {4 + [(11 × 8) – 14]} × 9 = **702**