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

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 10 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 ÷ (3 × 1)] × 10 = **30**
2. 12 + [(9 × 2) – 6] = **24**
3. 9 + [(3 + 1) × 13] = **61**
4. [(19 – 4) × 14] – 15 = **195**
5. 9 × [(17 + 4) + 7] = **252**
6. 3 + [(15 × 9) ÷ 9] = **18**

Part B: Parentheses, brackets and braces

7. {[10 ÷ (13 – 12)] – 6} + 12 = **16**
8. 5 + {[15 + (6 × 10)] + 13} = **93**
9. 2 + {[10 + (14 – 5)] × 6} = **116**
10. 15 × {6 + [(16 + 8) + 15]} = **675**
11. {9 + [(5 × 8) – 9]} × 3 = **120**
12. {15 ÷ [15 ÷ (5 × 3)]} × 15 = **225**
13. {[(9 ÷ 3) × 6] – 3} – 3 = **12**
14. 13 + {2 + [(3 + 6) × 6]} = **69**