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

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 4 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. $6 - [(14 - 2) - 11] =$ **5**
2. $5 + [(17 \times 7) + 10] =$ **134**
3. $[15 - (9 - 3)] \times 8 =$ **72**
4. $15 + [(12 + 1) + 14] =$ **42**
5. $[11 + (11 \times 4)] + 13 =$ **68**
6. $[9 \times (16 - 9)] - 8 =$ **55**

Part B: Parentheses, brackets and braces

7. $\{[(15 - 9) + 8] + 12\} - 3 =$ **23**
8. $\{9 + [(6 + 6) + 8]\} + 3 =$ **32**
9. $5 \times \{[8 + (14 - 6)] \times 5\} =$ **400**
10. $\{10 \times [9 \times (18 - 12)]\} - 10 =$ **530**
11. $\{9 - [(8 \times 7) \div 14]\} + 11 =$ **16**
12. $\{7 - [10 - (7 + 2)]\} \times 10 =$ **60**
13. $\{7 + [15 + (14 + 9)]\} - 10 =$ **35**
14. $\{6 \times [6 + (4 \times 5)]\} + 13 =$ **169**