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

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 2 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. $14 + [(14 \times 2) \times 4] =$ **126**
2. $11 + [(9 + 5) - 5] =$ **20**
3. $12 + [(11 - 9) \times 9] =$ **30**
4. $[(12 + 10) \div 11] + 4 =$ **6**
5. $8 + [(16 + 7) \times 15] =$ **353**
6. $5 - [(3 \times 12) \div 12] =$ **2**

Part B: Parentheses, brackets and braces

7. $7 + \{[4 \times (7 - 5)] - 4\} =$ **11**
8. $\{[(13 \div 1) + 14] + 15\} + 13 =$ **55**
9. $\{7 + [11 - (12 - 11)]\} - 7 =$ **10**
10. $12 + \{10 + [15 \times (15 + 6)]\} =$ **337**
11. $2 + \{8 \times [9 + (16 + 7)]\} =$ **258**
12. $3 \times \{[7 + (10 + 5)] + 7\} =$ **87**
13. $\{[15 + (13 + 10)] \times 8\} + 13 =$ **317**
14. $\{8 + [(11 + 12) + 9]\} \div 4 =$ **10**