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

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 7 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. [(15 – 12) + 8] + 4 = **15**
2. [(19 × 5) – 15] – 2 = **78**
3. [8 + (8 + 8)] – 2 = **22**
4. 8 + [8 × (8 + 6)] = **120**
5. [(7 × 10) – 15] × 10 = **550**
6. [(9 + 4) + 10] × 4 = **92**

Part B: Parentheses, brackets and braces

7. {[14 × (10 × 1)] + 3} + 7 = **150**
8. {[(20 ÷ 2) + 3] × 13} + 6 = **175**
9. 3 + {[(13 × 12) ÷ 12] × 15} = **198**
10. {[4 × (16 × 7)] – 7} – 15 = **426**
11. {[(3 + 12) + 10] – 4} + 15 = **36**
12. {[(6 + 11) × 4] ÷ 4} + 13 = **30**
13. {11 + [(10 – 6) + 12]} × 15 = **405**
14. 8 + {[11 × (8 + 9)] × 4} = **756**