Name: _____ Date: _____

Order of Operations With Parentheses, Brackets and Braces

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 3 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. [3 + (2 × 1)] + 6 = _____
2. 6 × [6 + (10 ÷ 1)] = _____
3. 14 + [4 × (7 × 2)] = _____
4. [15 ÷ (5 ÷ 5)] × 4 = _____
5. [(17 × 8) – 13] ÷ 3 = _____
6. [7 × (13 × 3)] ÷ 13 = _____

Part B: Parentheses, brackets and braces

7. 3 + {[(16 – 10) + 11] + 11} = _____
8. {[3 + (20 – 6)] × 3} + 10 = _____
9. {[10 + (16 × 4)] – 14} – 6 = _____
10. 15 + {[(10 + 1) × 6] ÷ 3} = _____
11. 5 + {4 ÷ [4 × (8 – 7)]} = _____
12. {[(3 + 3) × 7] – 2} × 4 = _____
13. 11 + {[(5 + 8) + 7] + 14} = _____
14. 2 × {[(4 × 8) × 4] ÷ 2} = _____

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

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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. [3 + (2 × 1)] + 6 = **11**
2. 6 × [6 + (10 ÷ 1)] = **96**
3. 14 + [4 × (7 × 2)] = **70**
4. [15 ÷ (5 ÷ 5)] × 4 = **60**
5. [(17 × 8) – 13] ÷ 3 = **41**
6. [7 × (13 × 3)] ÷ 13 = **21**

Part B: Parentheses, brackets and braces

7. 3 + {[(16 – 10) + 11] + 11} = **31**
8. {[3 + (20 – 6)] × 3} + 10 = **61**
9. {[10 + (16 × 4)] – 14} – 6 = **54**
10. 15 + {[(10 + 1) × 6] ÷ 3} = **37**
11. 5 + {4 ÷ [4 × (8 – 7)]} = **6**
12. {[(3 + 3) × 7] – 2} × 4 = **160**
13. 11 + {[(5 + 8) + 7] + 14} = **45**
14. 2 × {[(4 × 8) × 4] ÷ 2} = **128**