Name: _____ Date: _____

Order of Operations With Parentheses, Brackets and Braces

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 5 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. [(10 ÷ 1) + 5] × 6 = _____
2. [2 + (2 × 2)] + 6 = _____
3. [6 × (16 × 1)] + 8 = _____
4. [(5 + 1) ÷ 6] + 11 = _____
5. 2 + [(17 + 3) – 14] = _____
6. 15 × [(8 × 3) ÷ 2] = _____

Part B: Parentheses, brackets and braces

7. {[(19 – 9) × 5] + 6} – 3 = _____
8. 12 × {[3 ÷ (6 ÷ 2)] × 15} = _____
9. 15 + {[2 + (3 × 12)] – 4} = _____
10. 2 × {8 × [10 + (7 + 12)]} = _____
11. {10 + [7 + (5 × 3)]} ÷ 8 = _____
12. {[11 × (13 + 11)] + 6} – 13 = _____
13. 4 + {[(3 × 3) – 3] + 5} = _____
14. 4 × {[(11 × 3) + 5] – 12} = _____

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

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 5 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. [(10 ÷ 1) + 5] × 6 = **90**
2. [2 + (2 × 2)] + 6 = **12**
3. [6 × (16 × 1)] + 8 = **104**
4. [(5 + 1) ÷ 6] + 11 = **12**
5. 2 + [(17 + 3) – 14] = **8**
6. 15 × [(8 × 3) ÷ 2] = **180**

Part B: Parentheses, brackets and braces

7. {[(19 – 9) × 5] + 6} – 3 = **53**
8. 12 × {[3 ÷ (6 ÷ 2)] × 15} = **180**
9. 15 + {[2 + (3 × 12)] – 4} = **49**
10. 2 × {8 × [10 + (7 + 12)]} = **464**
11. {10 + [7 + (5 × 3)]} ÷ 8 = **4**
12. {[11 × (13 + 11)] + 6} – 13 = **257**
13. 4 + {[(3 × 3) – 3] + 5} = **15**
14. 4 × {[(11 × 3) + 5] – 12} = **104**