Name: _____ Date: _____

Order of Operations With Parentheses, Brackets and Braces

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 1 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. $14 + [6 \times (19 + 2)] =$ _____
2. $3 \times [(4 + 9) + 6] =$ _____
3. $[10 \times (19 - 1)] \times 2 =$ _____
4. $6 - [3 \div (3 - 2)] =$ _____
5. $15 + [15 \times (19 + 4)] =$ _____
6. $12 + [13 \times (6 - 2)] =$ _____

Part B: Parentheses, brackets and braces

7. $\{2 + [9 \times (19 \times 5)]\} + 9 =$ _____
8. $\{13 \times [(19 + 1) - 10]\} - 14 =$ _____
9. $\{14 + [(19 \times 5) - 7]\} + 12 =$ _____
10. $11 + \{3 + [(5 + 1) \times 2]\} =$ _____
11. $\{5 \times [5 \times (16 - 10)]\} - 7 =$ _____
12. $\{13 \div [5 + (14 - 6)]\} \times 6 =$ _____
13. $\{[12 \div (3 - 2)] - 5\} + 5 =$ _____
14. $\{[(4 + 8) \times 13] \div 13\} \div 6 =$ _____

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

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 1 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 + [6 × (19 + 2)] = **140**
2. 3 × [(4 + 9) + 6] = **57**
3. [10 × (19 – 1)] × 2 = **360**
4. 6 – [3 ÷ (3 – 2)] = **3**
5. 15 + [15 × (19 + 4)] = **360**
6. 12 + [13 × (6 – 2)] = **64**

Part B: Parentheses, brackets and braces

7. {2 + [9 × (19 × 5)]} + 9 = **866**
8. {13 × [(19 + 1) – 10]} – 14 = **116**
9. {14 + [(19 × 5) – 7]} + 12 = **114**
10. 11 + {3 + [(5 + 1) × 2]} = **26**
11. {5 × [5 × (16 – 10)]} – 7 = **143**
12. {13 ÷ [5 + (14 – 6)]} × 6 = **6**
13. {[12 ÷ (3 – 2)] – 5} + 5 = **12**
14. {[(4 + 8) × 13] ÷ 13} ÷ 6 = **2**