Name: _____ Date: _____

Order of Operations With Parentheses, Brackets and Braces

Grade 5 | Evaluating expressions with nested parentheses, brackets and braces | Version 9 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. $9 + [(2 \times 8) - 6] =$ _____
2. $15 + [8 + (7 + 1)] =$ _____
3. $[(8 \times 7) + 5] \times 9 =$ _____
4. $[12 \div (9 - 7)] \times 6 =$ _____
5. $7 + [(5 \times 6) + 2] =$ _____
6. $5 \times [7 \times (3 + 6)] =$ _____

Part B: Parentheses, brackets and braces

7. $\{5 + [(17 - 4) - 9]\} \times 15 =$ _____
8. $\{2 + [(18 \times 8) \div 4]\} + 4 =$ _____
9. $2 \times \{10 \times [(20 - 8) \div 2]\} =$ _____
10. $\{5 + [(6 - 2) - 2]\} \times 13 =$ _____
11. $4 + \{14 + [7 \times (9 - 6)]\} =$ _____
12. $\{[(17 + 10) - 11] - 7\} + 2 =$ _____
13. $6 \times \{5 + [13 + (17 + 5)]\} =$ _____
14. $\{4 + [(11 \times 8) - 14]\} \times 9 =$ _____

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. 9 + [(2 × 8) – 6] = **19**
2. 15 + [8 + (7 + 1)] = **31**
3. [(8 × 7) + 5] × 9 = **549**
4. [12 ÷ (9 – 7)] × 6 = **36**
5. 7 + [(5 × 6) + 2] = **39**
6. 5 × [7 × (3 + 6)] = **315**

Part B: Parentheses, brackets and braces

7. {5 + [(17 – 4) – 9]} × 15 = **135**
8. {2 + [(18 × 8) ÷ 4]} + 4 = **42**
9. 2 × {10 × [(20 – 8) ÷ 2]} = **120**
10. {5 + [(6 – 2) – 2]} × 13 = **91**
11. 4 + {14 + [7 × (9 – 6)]} = **39**
12. {[(17 + 10) – 11] – 7} + 2 = **11**
13. 6 × {5 + [13 + (17 + 5)]} = **240**
14. {4 + [(11 × 8) – 14]} × 9 = **702**