

# Unit 1: STUDY GUIDE: Order of Operations

MCC5.OA.1 Use Parenthesis, brackets, or braces in numerical expressions and evaluate expressions with these symbols.

<p>1. Henry needs to simplify this expression. Which operation should he do first?</p> $50 - (35 \div 5) \times (3 - 1)$ <p>A. <math>50 - 7</math>                      B. <math>35 \div 5</math> C. <math>(3 - 1)</math>                      D. <math>7 \times 2</math></p>	<p>2. Amari wants to simplify the following expression which operation should he do first?</p> $\{ [5 \times (8 \div 2)] + 18 - 12 \}$ <p>A. <math>8 \div 2</math>                      B. <math>18 - 12</math> C. <math>5 \times 8</math>                      D. This problem can't</p>
<p>3. Evaluate this expression:</p> $16 - 12 + 4$	<p>4. Evaluate this expression: <math>3 \times (10 - 4 \div 2)</math></p>
<p>5. Evaluate this expression:</p> $7 + [(3 + 5) \div (8 - 4)]$	<p>6. Evaluate this expression: <math>5^2 + 6 \times 2</math></p>
<p>7. There are 18 football players going to practice. Each player has 3 red practice jerseys and 2 white practice jerseys. Use the following expression to answer the questions.</p> $(3 + 2) \times 18$ <p>How many total jerseys does the team have at practice?</p>	<p>8. Explain which operation should be done first in the expression listed in question seven and explain why it should be done first.</p>

9. Solve:  $6 \times 4 + 9 \div 3$

10. Solve:  $2 \times (10 + 2 \times 5)$

11. Andy says that each of the following expressions have the same value. Is he correct? Explain your answer.

$3 \times (11 - 2)$

$6^2 - (3 \times 6 \div 2)$

$4 \times 9 + 4$

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12. Lionel purchased eight tickets to a Falcons game online. Each ticket cost \$25. There was a one time fee of \$6 for ordering online.

$6 + 25 \times 8$

What is the total cost of the eight tickets?

13. Solve:  $\{15 + [3(5 + 6)]\} =$

14. Solve:  $16 \div 4 \times 12 =$

15. Solve:  $(7 \times 2) - (10 \div 5) =$

NOTES: