ALBERT

Name _____ Date _____

Order of Operations Worksheet

Grade 5 · Common Core 5.OA.A.1

> Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.

Practice

Builds the skill step by step.

1. Find the value: $3 + 4 \times 2$

2. Find the value: $(3 + 4) \times 2$

3. Find the value: $20 - 6 \div 2$

4. Find the value: $(20 - 6) \div 2$

5. What is the first step in finding the value of $18 - (4 + 5)$?

   A. Subtract $18 - 4$.

   B. Subtract $18 - 5$.

   C. Add $4 + 5$.

   D. Multiply 4×5.

6. Find the value: $5 \times (8 - 3)$

7. Find the value: $36 \div (2 + 4)$

8. Find the value: $2 \times [3 + (4 \times 2)]$

9. Which expression has a value of 20?

   A. $2 + 3 \times 4$

   B. $(2 + 3) \times 4$

   C. $2 \times 3 + 4$

   D. $2 + 3 + 4$

10. Find the value: $10 + 15 \div 5 - 1$

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On Level

Grade-level practice.

1. Find the value: $4 \times [12 - (3 + 5)]$

2. Find the value: $\{30 - [2 \times (4 + 3)]\} \div 2$

3. Find the value: $48 \div (6 \times 2) + 7$

4. Where should parentheses go so that the value is 29?

   A. $6 + (4 \times 3) - 1$

   B. $6 + 4 \times (3 - 1)$

   C. $(6 + 4 \times 3) - 1$

   D. $(6 + 4) \times 3 - 1$

5. Find the value: $7 \times (9 - 4) - 3 \times 5$

6. Find the value: $[(15 + 9) \div 4] \times 3$

7. Find the value: $100 - 4 \times [5 + (6 \div 2)]$

8. Ana says $12 - 4 + 2 = 6$. Ben says $12 - 4 + 2 = 10$. Who is right?

   A. Ana, because addition is always done before subtraction.

   B. Ben, because addition and subtraction are done from left to right.

   C. Both, because the order does not matter.

   D. Neither. The value is 14.

9. Find the value: $(8 + 2) \times (7 - 3)$

10. Find the value: $3 \times \{2 + [10 - (4 + 1)]\}$

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Challenge

Multi-step and word problems that stretch it.

1. Where should parentheses go so that $2 \times 5 + 3 \times 4$ has a value of 52?

   A. $2 \times (5 + 3) \times 4$

   B. $2 \times 5 + (3 \times 4)$

   C. $(2 \times 5 + 3) \times 4$

   D. $2 \times (5 + 3 \times 4)$

2. Find the value: $\{[(6 + 2) \times 5] - 4\} \div 6$

3. Find the value: $9 + 3 \times [8 - (2 + 4)] \div 2$

4. Which expression has the greatest value?

   A. $5 \times (3 + 4) + 2$

   B. $(5 + 3) \times (4 + 2)$

   C. $5 + 3 \times (4 + 2)$

   D. $(5 + 3) \times 4 + 2$

5. Find the value: $50 - [3 \times (4 + 2)] \div 9$

6. Find the value: $\{8 \times [6 - (5 - 3)]\} + 12 \div 4$

7. Mia wrote 24 ÷ 4 × 2 = 24 ÷ 8 = 3. What is the correct value?

   A. 12, because multiplication and division are done from left to right

   B. 3, because you multiply before you divide

   C. 48, because you multiply 24 × 2 first

   D. 6, because you stop after dividing

8. What number makes this true? (15 − ___) × 4 = 32

9. Find the value: [(7 × 8) − 6] ÷ (2 + 3)

10. Which pair of expressions has the same value?

    A. (10 − 4) − 2 and 10 − (4 − 2)

    B. (2 × 3) + 4 and 2 × (3 + 4)

    C. 20 ÷ (2 + 3) and 20 ÷ 2 + 3

    D. 3 × (4 + 5) and 3 × 4 + 3 × 5