



Solve the following problems using the order of operations.

### Remember

- |   |  |
|---|--|
| <b>Step 1:</b> Parenthesis ()             | Solve all problems in parenthesis FIRST.                                       |
| <b>Step 2:</b> Exponents <sup>2,3,4</sup> | Next solve any numbers that have exponents.                                    |
| <b>Step 3:</b> Multiply or Divide ×, ÷    | Then solve any multiplication or division problems (going from left to right). |
| <b>Step 4:</b> Add or Subtract +, -       | Finally solve any addition or subtraction problems (going from left to right). |

1)  $21 \div 3 + (3 \times 9) \times 9 + 5$

2)  $18 \div 6 \times (4 - 3) + 6$

3)  $14 - 8 + 3 + 8 \times (24 \div 8)$

4)  $4 \times 5 + (14 + 8) - 36 \div 9$

5)  $(17 - 7) \times 6 + 2 + 56 - 8$

6)  $(28 \div 4) + 3 + (10 - 8) \times 5$

7)  $12 - 5 + 6 \times 3 + 20 \div 4$

8)  $36 \div 9 + 48 - 10 \div 2$

9)  $10 + 8 \times 90 \div 9 - 4$

10)  $8 \times 3 + 70 \div 7 - 7$

### Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



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**Remember**

- Step 1:** Parenthesis () Solve all problems in parenthesis FIRST.
- Step 2:** Exponents <sup>2,3,4</sup> Next solve any numbers that have exponents.
- Step 3:** Multiply or Divide  $\times, \div$  Then solve any multiplication or division problems (going from left to right).
- Step 4:** Add or Subtract  $+, -$  Finally solve any addition or subtraction problems (going from left to right).

1)  $21 \div 3 + (3 \times 9) \times 9 + 5$

**Step 1:**  $(3 \times 9) = 27$        $21 \div 3 + 27 \times 9 + 5$

**Step 2:**  $21 \div 3 = 7$        $7 + 27 \times 9 + 5$

**Step 3:**  $27 \times 9 = 243$        $7 + 243 + 5$

**Step 4:**  $7 + 243 = 250$        $250 + 5$

**Step 5:**  $250 + 5 = 255$        $255$

2)  $18 \div 6 \times (4 - 3) + 6$

**Step 1:**  $(4 - 3) = 1$        $18 \div 6 \times 1 + 6$

**Step 2:**  $18 \div 6 = 3$        $3 \times 1 + 6$

**Step 3:**  $3 \times 1 = 3$        $3 + 6$

**Step 4:**  $3 + 6 = 9$        $9$

3)  $14 - 8 + 3 + 8 \times (24 \div 8)$

**Step 1:**  $(24 \div 8) = 3$        $14 - 8 + 3 + 8 \times 3$

**Step 2:**  $8 \times 3 = 24$        $14 - 8 + 3 + 24$

**Step 3:**  $14 - 8 = 6$        $6 + 3 + 24$

**Step 4:**  $6 + 3 = 9$        $9 + 24$

**Step 5:**  $9 + 24 = 33$        $33$

4)  $4 \times 5 + (14 + 8) - 36 \div 9$

**Step 1:**  $(14 + 8) = 22$        $4 \times 5 + 22 - 36 \div 9$

**Step 2:**  $4 \times 5 = 20$        $20 + 22 - 36 \div 9$

**Step 3:**  $36 \div 9 = 4$        $20 + 22 - 4$

**Step 4:**  $20 + 22 = 42$        $42 - 4$

**Step 5:**  $42 - 4 = 38$        $38$

5)  $(17 - 7) \times 6 + 2 + 56 - 8$

**Step 1:**  $(17 - 7) = 10$        $10 \times 6 + 2 + 56 - 8$

**Step 2:**  $10 \times 6 = 60$        $60 + 2 + 56 - 8$

**Step 3:**  $60 + 2 = 62$        $62 + 56 - 8$

**Step 4:**  $62 + 56 = 118$        $118 - 8$

**Step 5:**  $118 - 8 = 110$        $110$

6)  $(28 \div 4) + 3 + (10 - 8) \times 5$

**Step 1:**  $(28 \div 4) = 7$        $7 + 3 + (10 - 8) \times 5$

**Step 2:**  $(10 - 8) = 2$        $7 + 3 + 2 \times 5$

**Step 3:**  $2 \times 5 = 10$        $7 + 3 + 10$

**Step 4:**  $7 + 3 = 10$        $10 + 10$

**Step 5:**  $10 + 10 = 20$        $20$

7)  $12 - 5 + 6 \times 3 + 20 \div 4$

**Step 1:**  $6 \times 3 = 18$        $12 - 5 + 18 + 20 \div 4$

**Step 2:**  $20 \div 4 = 5$        $12 - 5 + 18 + 5$

**Step 3:**  $12 - 5 = 7$        $7 + 18 + 5$

**Step 4:**  $7 + 18 = 25$        $25 + 5$

**Step 5:**  $25 + 5 = 30$        $30$

8)  $36 \div 9 + 48 - 10 \div 2$

**Step 1:**  $36 \div 9 = 4$        $4 + 48 - 10 \div 2$

**Step 2:**  $10 \div 2 = 5$        $4 + 48 - 5$

**Step 3:**  $4 + 48 = 52$        $52 - 5$

**Step 4:**  $52 - 5 = 47$        $47$

9)  $10 + 8 \times 90 \div 9 - 4$

**Step 1:**  $8 \times 90 = 720$        $10 + 720 \div 9 - 4$

**Step 2:**  $720 \div 9 = 80$        $10 + 80 - 4$

**Step 3:**  $10 + 80 = 90$        $90 - 4$

**Step 4:**  $90 - 4 = 86$        $86$

10)  $8 \times 3 + 70 \div 7 - 7$

**Step 1:**  $8 \times 3 = 24$        $24 + 70 \div 7 - 7$

**Step 2:**  $70 \div 7 = 10$        $24 + 10 - 7$

**Step 3:**  $24 + 10 = 34$        $34 - 7$

**Step 4:**  $34 - 7 = 27$        $27$

**Answers**

1. 255

2. 9

3. 33

4. 38

5. 110

6. 20

7. 30

8. 47

9. 86

10. 27