

Name \_\_\_\_\_

## Find the Error in the Order of Operations Answer Key

1.  $3 \times (5 + 2) = 21 \rightarrow$  Correct

Step 1:  $(5 + 2) = 7$

Step 2:  $3 \times 7 = 21$

2.  $(12 - 4) \times 3 = 24 \rightarrow$  Correct

Step 1:  $(12 - 4) = 8$

Step 2:  $8 \times 3 = 24$

3.  $20 \div (8 - 3) = 5 \rightarrow$  Incorrect

Step 1:  $(8 - 3) = 5$

Step 2:  $20 \div 5 = 4$  (not 5)

Reason: Division result miscalculated.

4.  $(6 + 9) \times 2 = 28 \rightarrow$  Incorrect

Step 1:  $(6 + 9) = 15$

Step 2:  $15 \times 2 = 30$  (not 28)

Reason: Multiplication after parentheses computed incorrectly.

5.  $10 + (4 \times 7) = 38 \rightarrow$  Correct

Step 1:  $(4 \times 7) = 28$

Step 2:  $10 + 28 = 38$

6.  $(18 - 9) \div 3 = 5 \rightarrow$  Incorrect

Step 1:  $(18 - 9) = 9$

Step 2:  $9 \div 3 = 3$  (not 5)

Reason: Division of 9 by 3 is 3, not 5.

7.  $20 \div 4 + 6 = 16 \rightarrow$  Incorrect

Order of operations: do division first.

Step 1:  $20 \div 4 = 5$

Step 2:  $5 + 6 = 11$  (not 16)

Reason: Added before dividing or mis-added after division.

8.  $16 \div 2) \times 5 = 40 \rightarrow$  Correct

Step 1:  $(16 \div 2) = 8$

Step 2:  $8 \times 5 = 40$

9.  $50 - (3 \times 9) = 23 \rightarrow$  Correct

Step 1:  $(3 \times 9) = 27$

Step 2:  $50 - 27 = 23$

10.  $(14 - 6) \times 4 = 24 \rightarrow$  Incorrect

Step 1:  $(14 - 6) = 8$

Step 2:  $8 \times 4 = 32$  (not 24)

Reason: Ignored parentheses or mis-multiplied.

11.  $(21 \div 7) + 13 = 14 \rightarrow$  Incorrect

Step 1:  $(21 \div 7) = 3$

Step 2:  $3 + 13 = 16$  (not 14)

Reason: Addition error after division.

12.  $5 \times (9 - 3) = 25 \rightarrow$  Incorrect

Step 1:  $(9 - 3) = 6$

Step 2:  $5 \times 6 = 30$  (not 25)

Reason: Subtraction or multiplication result computed incorrectly.