



Grade 6

Topic: Numerical Expressions and Factors

Instructions

Solve each question carefully using the correct order of operations for numerical expressions. List all the factors for the given numbers and identify whether they are prime or composite. Show your working where necessary and write your answers clearly in the spaces provided.

Part A: Evaluate the Expressions

Evaluate the following numerical expressions using the correct order of operations.

1. $5 + 3 \times 2 = \text{---}$
2. $(4 + 6) \div 2 = \text{---}$
3. $12 - 4 + 3 = \text{---}$
4. $9 \times (2 + 1) = \text{---}$

5. $(8 + 2) \times (3 - 1) = \text{----}$

6. $16 \div 4 + 5 = \text{----}$

7. $7 + (6 \times 2) - 3 = \text{----}$

8. $(10 - 4) \times (3 + 1) = \text{----}$

Part B: Find All the Factors

List all the factors of the following numbers.

9. 18: -----

10. 24: -----

11. 30: -----

12. 36: -----

13. 16: -----

Part C: Identify Prime or Composite

Write **Prime** or **Composite** for each number.

14. 7: ----

17. 20: ----

15. 12: ----

18. 31: ----

16. 29: ----

19. 15: ----

Part D: Challenge Questions

20. Write a numerical expression for: "Add 4 to the product of 3 and 5"

21. Write a numerical expression for: "Divide the sum of 10 and 2 by 3"

22. Find the common factors of 12 and 16 ----
23. Find the common factors of 18 and 30 ----
24. What is the greatest common factor (GCF) of 18 and 24? ----
25. What is the greatest common factor (GCF) of 36 and 48? ----

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