



Wada Nirmitti Education Society's
GURUKUL GLOBAL SCHOOL
WORKSHEET

SUB: MATHS

LESSON: 4 – EXPRESSIONS USING LETTERS – NUMBERS

STD: VII

NAME: _____ ROLL No: _____

DATE: _____

1. Ramesh is 5 years older than Suresh. If Suresh's age is represented by s , write an expression for Ramesh's age. Find Ramesh's age when Suresh is 14 years old.
2. A shop sells oranges at ₹28 each and apples at ₹45 each. Write an expression for the total cost if a customer buys x oranges and y apples. Evaluate the expression for $x = 6, y = 3$.
3. The perimeter of a regular octagon is 8 times the side length. Write the expression for perimeter when side length is a . Find the perimeter when $a = 12\text{cm}$.
4. A matchstick "T" shape requires 3 sticks. Write an expression for the number of sticks needed to make n "T" shapes. How many sticks are needed for 25 "T" shapes?
5. Consider the sequence: 7, 14, 21, 28, ... Write an expression for the n^{th} term. Find the 15th term.
6. Simplify:
 - i. $4a + 7b - 2a + 3b$
 - ii. $9x - (3x + 5)$
 - iii. $2(5m - 3n) + 4n - m$
7. A taxi charges a fixed ₹50 plus ₹12 per km. Write an expression for the total fare if the distance travelled is d km. Find the fare for 19 km.
8. A quiz gives 6 marks for each correct answer and deducts 2 marks for each wrong answer. Write an expression for the score if a student has c correct and w wrong answers. Find the score when $c = 12, w = 5$.
9. Describe situations corresponding to the following algebraic expressions:
 - i. $7x + 2y$
 - ii. $11x - 8y$
10. If $p = 3, q = 2$, evaluate: $7p - 4q + 5$
11. A rectangle has length l and breadth b . Write the expression for its perimeter. Find the perimeter when $l = 15\text{cm}$ and $b = 9\text{cm}$.