



St. XAVIER'S HIGH SCHOOL

Date:	Grade: VII	Topic: Algebra	Worksheet No.: 02
Name:	Roll No.		

Solve the questions in notebook:

1. Write the coefficient of 'a' in each of the following.

- a. $5a$ b. $\frac{9}{2}ab$ c. a

2. Group the like terms together: $-5x$, $-7y$, $-x$, $2y$, $57x$, x , and y

3. What must be added to $16t + 97u + 5st$ to get $15st - 4t + 98u$?

4. Subtract the following .

$12x + 3y - 11z$ from $7x - 9y - 11$

5. The perimeter of a triangle is $6x^2 + 8x + 4$ units. If two sides measure $10x + 2$ units and $2x^2 - 10x - 4$ units, respectively, what is the length of the third side?

6. The two equal sides of an isosceles triangle add up to $4a + 16b$ units. If the third side measures $13a + 5$ units, what is the perimeter of the triangle?

7. There are three Amirah's in a library. Amirah A can hold up to 'x' books. Amirah B can hold five times the number of books than Amirah A. Amirah C can hold 2550 books more than twice the books in Amirah B.

- Write an algebraic expression in terms of x for the books kept in almirah C, and identify the numerical coefficients and constant values in the expression.
- Write an algebraic expression in terms of x for the maximum number of books that can be kept in these Three almirahs.
- Suppose almirah A is filled and almirah B is half-filled. Amirah C has the space for 250 more books. How many books are there in total?

8. Solve the equations and find value of x:

- $4x+6= 16$
- $2x-7 = 19$
- $3(x+2) = 24$
- $5x - 8= 2x+ 13$