FORMATIVE ASSESSMENT - SECOND MID TERM

MATHEMATICS

Max. Marks: 50

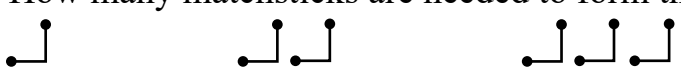
Std - VI

Time: 2 Hrs

Name of the School:	**Name of the Student:**
_____	_____
Place:	**Roll No.:**
_____	_____

I. Choose the correct answer: 10 x 1 = 10

1) How many matchsticks are needed to form the next figure in the series given below?



a) 10 b) 12 c) 8

2) If one bag contains 12 balls, then how many balls will be there in p such bags?

a) $12 \times p$ b) $12 + p$ c) $12 + 12$

3) In a group, there are 35 members. If there are k men, then which of the following expressions correctly represents the number of women?

a) $k - 35$ b) $k + 35$ c) $35 - k$

4) A quantity having a fixed value is called a _____

a) variable b) constant c) co-efficient

5) Any natural number × zero is zero. Algebraically _____

a) $x + 0 = 0$ b) $x \times 0 = 0$ c) $\frac{x}{x} = 0$

6) 3 times of x is added to 12. Form an expression describing this situation.

a) $12 + 3$ b) $x + 3$ c) $3x + 12$

7) An _____ will have algebraic expressions and constants or both separated by an (=) sign.

a) Equation b) Expression c) None

8) Which option and x^3y^2 form a pair of like terms?

a) $4xy^3$ b) $-4x^2y^3$ c) $4x^3y^2$

9) Which of the following is the statement for the algebraic expression $5 - p$?

a) 5 is reduced by p b) 5 is subtracted from p c) 5 is denoted by p

10) A _____ has 2 unlike terms combined by addition or subtraction.

a) binomial b) monomial c) trinomial

II. State whether true or false: 5 x 1 = 5

1) The terms $6k^2$, $3k$, $\frac{2}{3}k^3$ are like terms.

2) In a box there are some pencils and some pens. I can represent this algebraically as $(x + y)$.

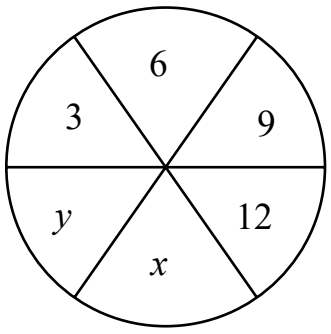
3) $16x$ means $(16 + x)$.

4) In the expression $4y + 2$, the coefficient of y is 4.

5) $3x + 5y$ is a binomial.

III. Answer the following: (any 10) **10 x 2 = 20**

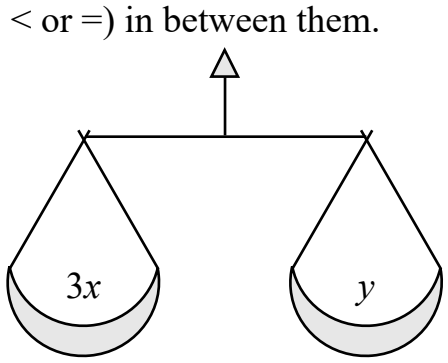
1) Convert the plain English into Algebraic expression:
   a) Equally distribute 1000 rupees to n people.
   b) In a football match, Bengaluru FC scored 2 more goals than Hyderabad FC. If Hyderabad FC scored 'z' goals, then how many goals did Bengaluru FC score?
2) Kate has a bag with 'm' number of toys. Ron gives her 'm' more toys. How many toys does Kate have in all if $m = 4$?
3) I woke up at 't' o'clock. After 3 hours it will be 9 o'clock. At what time did I wake up?
4) A triangle has its side measuring a, b and c units. Find its perimeter. If the perimeter is taken as p then write the equation.
5) What is the coefficient of x and x^2 respectively, in the expression $13mx^2 + 3x$?
6) Find the unknown values which satisfy the following equations.
   a) $3x - 1 = 8$ b) $3(8 - y) = 15$
7) Find whether the following sentences are equations or not. Justify your answer.
   a) Seven more than a number. b) 5 added to an unknown number equals 12.
8) In my class there are 40 children. 25 are boys and x are girls. How many are girls?
9) An isosceles triangle has a base 'x' cm and one of the equal sides is 'y'. Write the perimeter.
10) I am thinking of a number. If you divide the number by 4, 12 is what you will get. Considering the number that I am thinking of as 'x', set up an equation.
11) Look at the circle of numbers. Recognise the pattern and write the missing numbers given as x and y.



IV. Do the following: (any 3) **3 x 5 = 15**

1) Find the value of the expression $7y + 8 - 3y + 13 - 4$ by substituting $y = 12$.
2) Solve the riddle. I am a number. Take me five times over, and add a twenty. To reach triple century, you still need 80! Find my identity.
3) Add 100 rupees to your account and it will be 250 rupees. How much do you have in your account now?
4) Write the expressions shown on the balance with the correct comparison sign (>, < or =) in between them.

a)



b)