

BAL BHARATI PUBLIC SCHOOL

GANGARAM HOSPITAL MARG

FORMATIVE ASSESSMENT 3

MATHEMATICS

CLASS VI

ASSIGNMENT NO. 10

CHAPTER: INTRODUCTION TO ALGEBRA

Choose the correct option in Q. 1, 2, 3 and 4

Q.1 The co-efficient of z in $-25xy^2z$ is _____

- (a) $25y^2x$ (b) $-25y^2x$ (c) $-25xyz$ (d) $25xyz$

Q.2 Which of the following is an algebraic expression?

- (a) $3 \times 8 - 7$ (b) $8 \div 2 + 6$ (c) $2x + 8$ (d) none

Q.3 If $p = 1$, $q = 2$, $r = 3$ then the value of $p^2 + q^2 + r^2$ is

- (a) 8 (b) 26 (c) 14 (d) none

Q.4 The like terms in the expression $2x^2 + y^2 - 3x^2 - 7z^2x$ are

- (a) $2x^2, -3x^2$ (b) $2x^2, 7x$ (c) $-3x^2, 7x$ (d) y^2, z^2

Q.5 Write down the terms of these algebraic expression

- (i) $4a - 6b$ (ii) $3xy - 4zx + 7yz$ (iii) $-6p - 4ab + 7pq - abc$ (iv) $ax + 4by + 9cz$

Q.6 Combine the following terms to form an algebraic expressions.

- (i) $7xy, -4yz, 8xyz$ (ii) $-4ac, -abc, 3ab$ (iii) $-pqx, pq, -8r$ (iv) $-11x, 14xy$

Q.7 Identify the monomials, binomials and trinomials.

- (i) $pr - rst + 4sp$ (ii) $4abc$ (iii) $7xy + 4xz$ (iv) $7by - 4ax + 3z$

Q.8 Write down the coefficient of

- (i) x in $-3axy$ (ii) yz in $4axbyz$ (iii) abc in $-5abcx^2$ (iv) ab in $13abc$

Q.9 Write the numerical coefficient in each of the following terms

- (i) $5abc$ (ii) $-st$ (iii) $-7xyza$ (iv) pqr

Q.10 Find the value of the following if $x = -1$, $y = 1$ and $z = -2$

(i) $3x^2 - 7y$ (ii) $4x + y - 7z$ (iii) $4xy + 3yz - 7zx$ (iv) $x^3 - y^3 + z^3$

Q.11 Which of the following are equations with variables

(i) $7 \times 4 + 15 = 43$ (ii) $4t < 38$ (iii) $5y - 2 = 13$ (iv) $10y = 60$ (v) $t - 3 > -35$

Q.12 Pick out the solution from the value given in the brackets against each equation.

(i) $5n = 60$ (5, 15, 12)

(ii) $\frac{q}{3} = 7$ (7, 21, 12)

(iii) $a + 12 = 18$ (10, 6, 4)

(iv) $l - 8 = 7$ (21, 10, 15)

Q.13 Write the following statements in the form of equation

(i) 5 times y from which 3 is subtracted

(ii) 4 times of x taken away from one third of y

(iii) 6 subtracted from -6 times $-y$

(iv) Quotient of x by 8 is multiplied by y

Q.14 Solve each of the following equations

(i) $a + 9 = 14$ (ii) $l - 6 = 8$ (iii) $y + 10 = 25$ (iv) $\frac{z}{9} = 9$ (v) $6x = 24$ (vi) $3 - x = 5$

Q.15 The difference of two numbers is 6. If you write x for the smaller number, how do you write the larger?