

Board- CBSE	Std- 6	Topic- Algebra	Worksheet
-------------	--------	----------------	-----------

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  $2x^2 + y^2 - 3x^2 - 7z^2x$   
(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 expression.  
(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)  $\frac{a}{3} = 7$  (7, 21, 12)  
(iii)  $a + 12 = 18$  (10, 6, 4)  
(iv)  $1 - 8 = 7$  (21, 10, 15)

Q.13 Write the following statements in the form of an 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) The 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)  $6x = 24$  (v)  $3 - x = 5$

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