Finding the value of an Expression

- 1. Find the value of the following expressions, when x = -3.
 - A. 5x + 8
 - B. $-2x^2 + 5x + 7$
 - C. $4x^2 3x 8$
- 2. If x = 2, y = -2, find the value of:
 - A. $x^2 + xy + y^2$
 - B. $x^2 2xy y^2$
 - C. $x^2 + 3y^2$
- 3. a = 0, y = -2 find the value of the following expressions:
 - A. $3x^2 + 4xy + 4$

B.
$$4x^2y + 3xy^2 + 2xy$$

- 4. If x = 3, y = -1 and 2 = -2, find the value of the following expressions:
 - A. $5x^2yz 3xy^2z + 4xyz$
 - B. $x^2 + y^2 + z^2 xy yz zx$
 - C. $x y^2 xyz + 9x y^2 z + 16$
- 5. If a = 9, find the value of $a^3 4$ (a 9).
- 6. If b = -15, find the value of $b^4 3b^2 200$.
- 7. Simplify the expression and find its value when a = 3 and b = -5: 3(a³ + a² b) + 4 2ab.
- 8. If p = -3, q = -1 and r = 2, find the value of:

 $3 p^2 q^2 r^2 - 2pqr + 7$

9. Evaluate the following for a = 2, b = -1, c = -2.

A.
$$\frac{1}{5}a^2 - b + c$$

B. $2a^2b^2 - 5ab + 7$

- 10. A number has two digits with a in tens place and b in the units place. If the digits are reversed, what will be the new number?
- 11. Ruhi is twice as old as Kajal. If Kajal is x years old, what is the sum of Ruhi's and Kajal's age?
- 12. Write the type of each in the given expressions as Monomial, Binomial and Trinomial.

A.
$$\frac{-8}{13} x^2 y z^2$$

B. $3 x^2 y^2$

C.
$$8xy^2 - 3x^2y + \frac{5}{9}x^2y^2$$

D.
$$3a^{2}b + 8$$