Introduction of Algebraic Expression

1. **Write an algebraic expression for the following:**

   A. 3 times a number increased by 4.

   B. Half of a number added to nineteen.

   C. The product of two numbers added to their sum.

   D. The square of a number subtracted from five times of another number.

   E. Nine more than a number divided by (a + b).

   F. 4 times the reciprocal of 'a' added to 'a' times the reciprocal of 7.

2. **Write the numerical coefficient of:**

   A. $-101\ x^2\ y^2\ z$

   B. $-3 \times 7 \times 15 \times x \times x \times y \times y \times z \times z$

   C. $-p^2\ q^2\ r$

   D. $-25x^3 + 28x^3$

3. **Write the constant term of:**

   A. $16a^3 - 2a - \dfrac{17}{5}$

   B. $\dfrac{1}{3}p^2 - 2q + 2$

4. **Write the coefficient of:**

   A. a in $-17ab^2c$

   B. q^2 in $\dfrac{16}{3}p^2q^3r$

   C. x in $-15x\ y^2$

5. Identify the like terms in the following:

A. a^3b^3c, a^2b^2c, $a^2c\,b^2$, $-5a^2b^2c$

B. $-3x^2y$, $2y^2x^2$, $-5y\,x^2$, $-2x^2y^2$