

# DAV PUBLIC SCHOOL, SASARAM

## PRACTICE SET FOR MATHEMATICS

CLASS-8 A

SUBJECT- MATHEMATICS

SUB. TEACHER- KANCHAN PATEL

TOPIC- OPERATIONS ON ALGEBRAIC EXPRESSION

Q.1 Find each of the following products:

a.  $(4x+5y)(4x-5y)$

b.  $(3x^2+2y^2)(3x^2-2y^2)$

Q.2 Evaluate the following, using identities:

a.  $(105)^2$

b.  $(47)^2$

c.  $(8.3 \times 7.7)$

Q.3 Find the value of the expression  $25x^2 + 9y^2 + 30xy$ , when  $x = 8$  and  $y = 10$ .

Q.4 If  $x + \frac{1}{x} = 5$ , find the values of:

(a)  $x^2 + \frac{1}{x^2}$

(b)  $x^4 + \frac{1}{x^4}$

Q.5 Using the formula for squaring a binomial, evaluate the following:

a.  $(54)^2$

b.  $(82)^2$

c.  $(103)^2$

d.  $(704)^2$

Q.6 Using the formula for squaring a binomial, evaluate the following:

a.  $(69)^2$

b.  $(78)^2$

c.  $(197)^2$

d.  $(999)^2$