THE VILLAGE
INTERNATIONAL SCHOOL

Class 10	Mathematics 041	Ref: Oswal
Work sheet no.3	Topic: POPLYNOMIALS	Type: MCQ
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1. The pairs of equations $x+2y-5 = 0$ and $-4x-8y+20=0$ have:

(a) Unique solution

(b) Exactly two solutions

(c) Infinitely many solutions

(d) No solution

2. If a pair of linear equations is consistent, then the lines are:

(a) Parallel

(b) Always coincident

(c) Always intersecting

(d) Intersecting or coincident

3. The pairs of equations $9x + 3y + 12 = 0$ and $18x + 6y + 26 = 0$ have

(a) Unique solution

(b) Exactly two solutions

(c) Infinitely many solutions

(d) No solution

4. If the lines $3x+2ky - 2 = 0$ and $2x+5y+1 = 0$ are parallel, then what is the value of k?

(a) 4/15

(b) 15/4

(c) ½

(d) 5/4

5. If one equation of a pair of dependent linear equations is $-3x+5y-2=0$. The second equation will be:

(a) $-6x+10y-4=0$

(b) 6x-10y-4=0

(c) 6x+10y-4=0

(d) -6x+10y+4=0

6. The solution of the equations x-y=2 and x+y=4 is:

(a) 3 and 1

(b) 4 and 3

(c) 5 and 1

(d) -1 and -3

7. A fraction becomes 1/3 when 1 is subtracted from the numerator and it becomes 1/4 when 8 is added to its denominator. The fraction obtained is:

(a) 3/12

(b) 4/12

(c) 5/12

(d) 7/12

8. The pair of equations $5x - 15y = 8$ and $3x - 9y = 24/5$ has

(a) one solution

(b) two solutions

(c) infinitely many solutions

(d) no solution

9. The value of c for which the pair of equations $cx - y = 2$ and $6x - 2y = 3$ will have infinitely many solutions is

(a) 3

(b) -3

(c) -12

(d) no value

10. If the lines representing the pair of linear equations $a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$ are coincident, then

(a) $a_1/a_2 = b_1/b_2$

(b) $a_1/a_2 = b_1/b_2 = c_1/c_2$

(c) $a_1/a_2 \neq b_1/b_2$

(d) $a_1/a_2 = b_1/b_2 \neq c_1/c_2$