



Class 9 Mathematics | Introduction To Linear Polynomials

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. Which expression is a linear polynomial in x ?

A. x^2+1 B. $5-2x$ C. $\sqrt{x}+3$ D. $1/x+2$

2. The coefficient of x in $7-3x$ is:

A. -7 B. -3 C. 3 D. 7

3. If $p(x)=4x-7$, then $p(3)$ is:

A. 19 B. 5 C. -5 D. 12

4. The zero of $5x+15$ is:

A. -5 B. 3 C. -3 D. 5

5. A taxi charges ₹40 fixed plus ₹12 per km. Cost for x km is:

A. $12x-40$ B. $40+12x$ C. $52x$ D. $40x+12$

6. In $y=-3x+8$, the slope is:

A. 3 B. -8 C. 8 D. -3

7. The y-intercept of $y=2x-5$ is:

A. 5 B. 2 C. -2 D. -5

8. Water starts at 90 L and drains at 6 L/min. Volume after t minutes is:

A. $84t$ B. $90-6t$ C. $90+6t$ D. $6t-90$

9. For $y=3x+2$, increasing x by 4 increases y by:

A. 6 B. 12 C. 4 D. 14

10. A line has slope 4 and y-intercept 1. Its equation is:

A. $y=4x-1$ B. $y=5x$ C. $y=4x+1$ D. $y=x+4$

11. Which input makes $7-2x$ equal to -1?

A. 3 B. -4 C. -3 D. 4

12. The expression $(3x+2)+(5-x)$ simplifies to:

A. $4x+7$ B. $2x-3$ C. $2x+7$ D. $4x-3$

13. If $p(2)=11$ for $p(x)=ax+3$, then a is:

A. 4 B. 8 C. 7 D. 5

14. A linear pattern has values 5, 8, 11 at $x=1, 2, 3$. Its rule is:

A. $y=2x+3$ B. $y=5x-2$ C. $y=3x+2$ D. $y=3x+5$

15. For what k does $(k-2)x+5$ have degree zero?

A. 0 B. 5 C. -2 D. 2

ANSWER KEY — check after completing all 15 questions

1.B 2.B 3.B 4.C 5.B 6.D 7.D 8.B 9.B 10.C 11.D 12.C 13.A 14.C 15.D

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper