

## Class 10 ICSE Mathematics Answer Key 2025

Questions	Answers
(i) The given quadratic equation $3x^2 + \sqrt{7}x + 2 = 0$ has:	(d) No real roots
(ii) Mr. Anuj deposits Rs 500 per month for 18 months in a recurring deposit account at a certain rate. If he earns Rs 570 as interest at the time of maturity, then his matured amount is:	(a) ₹ (500 x 18 + 570)
(iii) Which of the following cannot be the probability of any event?	(a) 5/4
(iv) The equation of the line passing through origin and parallel to the line $3x + 4y + 7 = 0$ is:	(d) $3x + 4y = 0$
(v) If $A = \begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$ , then $A^2$ is equal to	(c) $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$
(vi) In the given diagram, chords AC and BC are equal. if $\angle ACD = 120$ degrees, $\angle AEC$ is:	(d) 120 degree
(vii) The factor common to the two polynomials $x^2 - 4$ and $x^3 - x^2 - 4x + 4$ is	(d) $(x - 2)$
(viii) A man invested in a company paying 12% dividend on its shares. If the percentage return on his investment is 10%, then the shares are:	(c) above par
(ix) Statement 1: The point which is equidistant from three non-collinear points D, E, and F is the circumcentre of the $\triangle DEF$ . Statement 2: The incentre of a triangle is the point where the bisector of the angle intersects.	(a) Both the statements are true
(x) Assertion (A): If $\sin^2 A + \sin A = 1$ then $\cos^4 A + \cos^2 A = 1$ Reason (R): $1 - \sin^2 A = \cos^2 A$	(c) Both Assertion (A) and Reason (R) are true, and R is the correct reason for (A)
(xi) In the given diagram $\triangle ABC \sim \triangle EFG$ . If $\angle ABC = \angle EFG = 60$ degrees, then the length of the side FG is	(a) 15 cm
(xii) If the volume of two spheres is in the ratio 27: 64, then the ratio of the radii is:	(a) 3: 4
(xiii) The marked price of an article is ₹1375. If the CGST is charged at the rate of 4%, then the price of the article including GST is:	(d) ₹ 1485
(xiv) The solution set for $0 < -x/3 < 2$ , $x \in \mathbb{Z}$ is:	(a) $\{-5, -4, -3, -2, -1\}$
(xv) Assertion (A): The mean of first 9 natural numbers is 4.5 Reason (R): Mean = Sum of all the observations/ Total number of observations	(b) A is false, R is true