**Marking Scheme (Answers)**

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| --- | --- | --- |
| . 1- | Yes, Reason | + Mark |
| . 2- |  | 1 Mark |
| 3- | one | 1 Mark |
| 4 | IV | 1 Mark |
| 5 | 0.545 | 1 Mark |
| 6. | 1 :2 | 1 Mark |
| 7. | Multiply by 100 and simplify  Answer 233/990 | 1Mark  1Mark |
| 8. | Put x=-1 and substitute the value  Finding the answer -8 | 1Mark  1Mark |
| 9. | Finding radius  To find volume | 1 Mark  1 Mark |
| 10. | . Let the the angles be x and y  X+y=1400 ,x-y=20 0 So, 2x=1600 or x=80 0 And y=600 | (1/2) Mark   1. Mark   (1/2) Mark |
| 11. | (i) 4/5  (ii) 1 | 1 Mark  1 Mark |
| 12. | Drawing perpendicular on chord.  For correct proof | (1/2) Mark  (1/2) Mark |
| 13. | Finding sides a,b,c  Finding s and Herons formula  Calculate area correctly. | 1 Mark  + Mark  1 Mark |
| 14. | Convert in the form of a3-b3  Apply identity  Correct answer  OR | 1 Mark  1 Mark  1 Mark  1 Mark  2 Marks |
| 15. | Solution x= -6  Represent on number line  Represent on Cartesian plane | 1 Mark  1 Mark  1 Mark |
| 16. | Figure  Writing Euclid’s axiom  Proving result | (1) Mark  ½ Mark  1 ½ Mark |
| 17. | (i) Plotting the points correctly (2)  (ii) AD cuts y-axis at (0,3)  CD cuts x-axis at (-3,0) | 2 Marks  1 mark |
| 18. | proving ABD ACD (BY SAS rule )  AB=AC (by CPCT) | 2 Marks  1 Mark |
| 19. | Given, To Prove, figure  Proof | 1 ½ Mark  1 ½ Marks |
| 20. | Given, To Prove, figure  Proof  Or | 1 ½ Mark  1 ½ Marks  Figure:1 mark  2 marks |
| 21. | Formula of median  X=62 | 1 Mark  2 Marks |
| 22. | Figure  To find ∠BCD =800  To find ∠ECD.= 300 | 1 Mark  1 Mark  1 Mark |
| 23. | Find radius of the cone  Find height of the cone  Apply the formula of volume and substitute the correct values  To calculate volume correctly | 1 Mark  1 Mark  1Mark  1Mark  Figure:1 mark  1 mark  1 mark |
| 24. |  | 1 mark  ½ mark  ½ mark  ½ mark  1 ½ mark |
| 25. | Forming an equation y=8+5(x-1)  For y= 5x+3  Finding at least two points to draw the graph on above line  Correct Graph of the line | 1. Mark   1Mark  1Mark  1Mark |
| 26. | Multiply by rationalize factor  Solve above and writing the answer in the form of a+b  Correct values of a & b. | 1 Mark  2 Mark  Mark |
| 27 | To find any one factor using remainder theorem  Division process  To solve quadratic polynomial  To write all the factors correctly  OR   1. To apply identity correctly   Correct answer   1. To find the value of a+b+c= 0,using identity   To calculate correct answer=3abc,where a=15,b=-8,c=-7 | 1Mark  1Mark  1 Mark  1Mark  1Mark  1Mark  1 Mark  1Mark |
| 28. | PQ || SR and QR is transversal  X+280 =650 (alt. int. angles)  X= 650- 280 =370  In ∆PQS, by angle sum property of triangle  Y= 530  Suitable marks for alternate methods.  OR  PR > PQ  ∠Q > ∠R ……(i)  ∠QPS= ∠RPS (given) …..(ii)  Adding 9i) and (ii)  ∠Q + ∠QPS >∠R + ∠ RPS  ∠PSR > ∠PSQ (Ext. angle prop) | 1. Marks   2 Marks   1. mark   2 marks  1 Mark |
| 29. | For correct construction | 4 Marks |
| 30. | Continuous class intervals  Frequency polygon of team A  Frequency polygon of team B | 1 Mark  1 ½ mark  1 ½ mark |