**MARKING SCHEME**

|  |  |  |
| --- | --- | --- |
| 1 | /7 | 1 MARK |
| 2 | 27 | 1 MARK |
| 3 | 5/70 | 1 MARK |
| 4 | 1 m | 1MARK |
| 5 | Origin | 1 mark |
| 6 | 700 | 1 mark |
| 7 | Correct figure with const. OM BC  Correct proof | ½ mark  1and 1/2 marks |
| 8 | X= 1 and right substitution  k =-2 | 1 mark  1 mark |
| 9 | 3x + 5x + 9x + 13x = 360o  X = 12  36deg, 60deg, 108deg, 156deg | 1 mark  1 mark |
| 10 | Correct figure  Correct Proof | 0.5 Mark  1.5 marks |
| 11 | 12a + 17a + 25a = 540  a = 10  A= 9000 cm2 | 0.5 marks  1.5 Marks |
| 12 | Correct formula  Mean = 54.8 | 1 mark |
| 1 mark |
| 13 | Visuallising 4.587 on number line | 3 marks |
| 14 | (-2,4) – 2nd  (3,-1) – 4th  (-1,0) – y axis  (1,2) – 1st  (-3,-5) – 3rd  (0,-5) – X axis | ½ marks  ½ marks  ½ marks  ½ marks  ½ marks  ½ marks |
| 15 | For each solution | 1\*3= 3 marks |
| 16 | Figure  Correct proof  Correct axiom | ½ mark  1&1/2 marks  1 mark |
| 17 | Given,to prove, figure,construction  Correct proof | 1&1/2 marks  1&1/2 marks |
| 18 | ROS+90o  2 | 1 mark  1 mark  1 mark |
| 19 | (i)0.02  (ii) 0.77  (iii) 0.535 | 1 mark  1 mark  1 mark |
| 20 | 6x2+15x+2x+5  3x(2x+5)+1(2x+5)  (3x+1)(2x+5) | 1 mark  1 mark  1 mark |
| 21 | TSA = 2(lb + bh +hl)  Calculating surface area =0.09375m2  No of bricks=9.375/.09375=100 bricks | 1 mark  1 mark  1 mark |
| 22 | Area of rhombus=864 m2  Area for 1 cow=48m2 | 2 marks  1 mark |
| 23 | Representing  on number line  Correct justification | 3mark  1 mark |
| 24 | 1. If   -1260 | 1 mark  1 mark  1 mark |
| 25 | Figure, given, to prove, Construction  Correct proof | 2 marks  2marks |
| 26 | Figure  (i) Reason- Mid point theorem  (ii) correct proof  (iii) correct proof | 1/2 marks  1 mark  1 mark  1.5 Marks |
| 27 | For calculating x=-4  (i) correct representation  (ii)correct representation | 1 mark  1 mark  2 marks |
| 28 | (i) Inside Surface Area = 498.96 / 2 = 249.48 m2  (ii)Radius = 6.2 m  (iii)Volume =523.9 m3 | 1 mark  1& ½ marks  1& ½ marks |
| 29 | Correct construction | 4 marks |
| 30 | (i)    (ii) | 1 mark  3 marks |