**MARKING SCHEME**

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| --- | --- | --- |
| 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 $⊥$ BCCorrect proof | ½ mark1and 1/2 marks |
| 8 | X= 1 and right substitution k =-2 |  1 mark1 mark |
| 9 | 3x + 5x + 9x + 13x = 360oX = 1236deg, 60deg, 108deg, 156deg | 1 mark1 mark |
| 10 | Correct figure Correct Proof | 0.5 Mark1.5 marks |
| 11 | 12a + 17a + 25a = 540a = 10A= 9000 cm2 | 0.5 marks1.5 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 marks½ marks½ marks½ marks½ marks½ marks |
| 15 | For each solution | 1\*3= 3 marks |
| 16 | FigureCorrect proofCorrect axiom | ½ mark1&1/2 marks1 mark |
| 17 | Given,to prove, figure,constructionCorrect proof | 1&1/2 marks1&1/2 marks |
| 18 | $∠$ROS+$∠SOP=$90o$$∠SOQ-∠ROS= 90^{0}$$2$∠ROS=∠QOS-∠POS$ | 1 mark1 mark1 mark |
| 19 | (i)0.02(ii) 0.77(iii) 0.535 | 1 mark1 mark1 mark |
| 20 | 6x2+15x+2x+53x(2x+5)+1(2x+5)(3x+1)(2x+5) | 1 mark1 mark 1 mark |
| 21 | TSA = 2(lb + bh +hl)Calculating surface area =0.09375m2No of bricks=9.375/.09375=100 bricks | 1 mark 1 mark1 mark |
| 22 | Area of rhombus=864 m2Area for 1 cow=48m2 | 2 marks1 mark |
| 23 | Representing  on number lineCorrect justification | 3mark1 mark |
| 24 | 1. $8a^{3}+27b^{3}-36a^{2}b+54 ab^{2}$
2. If $If a+b+c=0, then a^{3}+b^{3}+c^{3}=3abc$

-1260 | 1 mark1 mark1 mark |
| 25 | Figure, given, to prove, ConstructionCorrect proof | 2 marks2marks |
| 26 | Figure(i) Reason- Mid point theorem(ii) correct proof(iii) correct proof | 1/2 marks1 mark1 mark1.5 Marks |
| 27 | For calculating x=-4(i) correct representation(ii)correct representation | 1 mark1 mark2 marks |
| 28 | (i) Inside Surface Area = 498.96 / 2 = 249.48 m2(ii)Radius = 6.2 m(iii)Volume =523.9 m3 | 1 mark1& ½ marks1& ½ marks |
| 29 | Correct construction | 4 marks |
| 30 |  (i) (ii) | 1 mark3 marks |