**MATHEMATICS FORM ONE**

**MARKING SCHEME**

|  |  |  |  |
| --- | --- | --- | --- |
| **NO** | **WORKING** | **MARKS** | **REMARKS** |
| 1 | Area of farm =  Area in hectares =  Cost of digging = | M 1  M 1  A 1 |  |
| 2 |  | M1  M1  A1 | Correct factors  Accept other alternative correct method for getting the L.C.M |
| 3 |  | M 1  M1  A1 |  |
| 4 | External volume =    Internal volume =  Volume =  Mass = | M 1  M 1  A 1 | Both external and internal volumes |
| 5 |  | M1  M1  A1 |  |
| 6 |  | M 1  M 1  A1 | Correct substitution  Correct working |
| 7 | Length =  Perimeter =  New perimeter = | B 1  M 1  A 1 |  |
| 8 | Now – yrs  10 yrs time – yrs  5yrs ago –  = 30 yrs | **m1**  **a1**  **b1** |  |
| 9 |  | B 1  M 1  A 1 |  |
| 10 | Volume | M 1  M 1  A 1 |  |
| 11 | =  = | B1  B1  B1 |  |
| 12 |  | M 1  M 1  A 1  B 1 |  |
| 13 |  | M 1  A 1  M 1  A 1 |  |
| 14 | Let ............ (i)  ................(ii)  ............(iv)  ............(v)  .......... (vi)  Subtract (ii) from (vi) to get; | M1  M1  A1 |  |
| 15 | Convert 12.15 p.m. into 1215h | B 1  M 1  A 1 |  |
| 16 |  | M 1  M 1  A 1 | Square  Square root |
|  |  |  |  |
| 17 | 1. Let the mother’s age   And daughter      ............... (i)  In ten year’s time:  Mother’s age  Daughter’s age  ............ (ii)  Equating (i) and (ii)  Subst. for t in (i)  :. At present mother is 30 years old and daughter is 10 years old.  Mother’s age when son was born   1. …………..(i) x 3   …………(ii) x 2      Substituting for b in equation (ii) | M1  M1  A1  B1  M1  A1  B1  M1  M1  A1 |  |
| 18 | 1. Total area of walls =   Area of doors and windows  Area to be painted =   1. Total quantity of paint   Number of tins required =     1. Cost of paint =   Cost of painting =  Total cost of painting = | M 1  M 1  A 1  M 1  M 1  A 1  M 1  M 1  A 1 |  |
| 19 | 1. Volume =   Half full =     1. Volume of tank =   Number of containers required =  containers   1. (i)   L = 6 cm  Volume =  (ii) Capacity = | M 1  M 1  A 1  M 1  M 1  A 1  M 1  B 1  A 1  A 1 |  |
| 20 | = Ksh. 350, 000  Sales   1. Sales in February       (ii)  Commission | M1  M1  M1  A1  M1  M1  A1  M1  M1  A1 |  |
| 21 | 1. Rental contribution per son =   Ratio of total contribution;  Macharia: Omondi : Kimtai     1. Profits returned to business =     Profits shared =   1. Ratio of contribution =   Macharia’s share =  Omondi’s share =  Kimtai’s share = | M 1  A1  M1  A1  M 1  A 1  M 1  A 1  M 1  A 1 |  |