**MATHEMATICS FORM ONE**

**MARKING SCHEME**

|  |  |  |  |
| --- | --- | --- | --- |
| **NO** | **WORKING** | **MARKS** | **REMARKS** |
| 1 | Area of farm = Area in hectares = Cost of digging =  | M 1M 1A 1 |  |
| 2 |  | M1M1A1 | Correct factorsAccept other alternative correct method for getting the L.C.M |
| 3 |  | M 1M1A1 |  |
| 4 | External volume =  Internal volume = Volume = Mass =  | M 1M 1A 1 | Both external and internal volumes |
| 5 |  | M1M1A1 |  |
| 6 |  | M 1M 1A1 | Correct substitutionCorrect working |
| 7 | Length = Perimeter = New perimeter =  | B 1M 1A 1 |  |
| 8 | Now – yrs10 yrs time – yrs5yrs ago –  = 30 yrs | **m1****a1****b1** |  |
| 9 |  | B 1M 1A 1 |  |
| 10 | Volume  | M 1M 1A 1 |  |
| 11 | == | B1B1B1 |  |
| 12 |  | M 1M 1A 1B 1 |  |
| 13 |  | M 1A 1M 1A 1 |  |
| 14 | Let ............ (i) ................(ii)  ............(iv) ............(v) .......... (vi)Subtract (ii) from (vi) to get; | M1M1A1 |  |
| 15 | Convert 12.15 p.m. into 1215h | B 1M 1A 1 |  |
| 16 |  | M 1M 1A 1 | SquareSquare 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) | M1M1A1B1M1A1B1M1M1A1 |  |
| 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 1M 1A 1M 1M 1A 1M 1M 1A 1 |  |
| 19 | 1. Volume =

Half full =  1. Volume of tank =

Number of containers required =  containers 1. (i)

L = 6 cmVolume = (ii) Capacity = | M 1M 1A 1M 1M 1A 1 M 1B 1A 1A 1 |  |
| 20 |  = Ksh. 350, 000Sales 1. Sales in February

   (ii)  Commission   | M1M1M1  A1M1M1A1M1M1A1 |  |
| 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 1A1M1A1M 1A 1M 1A 1M 1A 1 |  |