Maths Literacy: MEMO Paper 1

QUESTION 1:	
1.1.1 2,78	✓✓
1.1.2 4,58%	✓✓
1.1.3 43 200 sec	✓✓
1.1.4 R147,64 ÷ 5 ≈ R30	✓✓
1.1.5 624 cm ÷ 4 = 156 cm	✓✓
1.2.1 ½ teaspoon	✓✓
1.2.2 8 cups	✓✓
1.2.3 ½ liter	✓✓
1.2.4 350 ml	✓✓
1.2.5 °F = 1,8 × °C + 32° °F = 1,8 × 190°C + 32° °F = 374°	✓✓
1.3.1 Zeus	✓✓
1.3.2 Class 12A	✓✓
1.3.3 30%	✓✓
1.3.4 40% of 40 = 16 learners	✓✓
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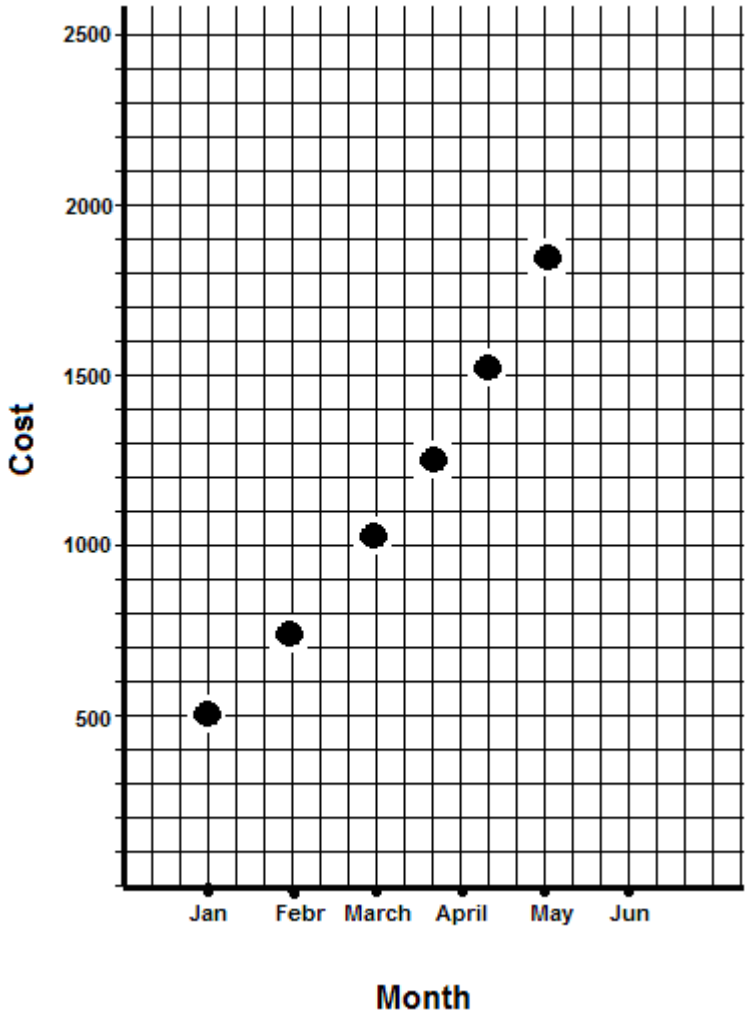
QUESTION 2:	
2.1.1 447	✓✓
2.1.2 R25,03	✓✓
2.1.3.1 50 ÷ 4,5461 = 10,99 gallons	✓✓
2.1.3.2 10,99 × 6,314 = £ 69,39	✓✓
2.1.3.3 £ 1 : R17,506 £ 69,39 : R1 214,74	✓✓
2.2.1 2 houses	✓✓
2.2.2 Wages = 3[8 × R10,48] = R251,52	✓✓
2.2.3 9 cleaners	✓✓
2.2.4 Wages = 3 × R251,52 = R754,56	✓✓
2.2.5 Wages = 3[4 × R21] = R252	✓✓
2.3.1 Area = (30)(20) + 2(20)(40) + 2(30)(40) = (600 + 1600 + 2400) cm^2 = 4600 cm^2	✓✓ ✓✓

2.3.2 4 600 cm^2 = 0,46 m^2	✓✓
2.3.3 Cost = (0,46 + 0,25)m^2 × R25,99 = R18,45	✓✓
2.3.4 Area = 30 cm × 20 cm = 600 cm^2 [30]	✓✓
QUESTION 3: 3.1 A = R380 B = R65 C = R130 D = R65 × 3 =R195 E = R510 F = R810 3.2 A = 4 × R65 = R260 B = 2 × R130 = R260 C = R260 D = R260 3.3 Total cost for Salon = R1810 Total cost for DIY = R2110 3.4 A = R1030 B = R1810 C = R1070 D = R2110 3.5	✓✓✓ ✓✓ ✓✓ ✓✓✓✓



✓✓
✓✓

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QUESTION 4:

4.1 5 600 ml ÷ 350 ml = 16 tins ✓✓

4.2 16 × R25,50 = R408 ✓✓
Profit = R408 – R250 = R158

4.3

$$Height = \frac{Volume}{\pi r^2}$$

$$Height = \frac{350}{\pi(3,4)^2} = 10cm$$ ✓✓✓

4.4	Length: 35 ÷ 6,4 = 5,47 ≈ 5 tin Width: 25 ÷ 6,4 = 3,91 ≈ 3 tins Height: 30 ÷ 10 = 3 tins Number of tins = 3 × 15 tins = 45 tins [14]	 ✓✓ ✓✓✓

QUESTION 5:

5.1.1 36% ✓✓
5.1.2 2012 ✓✓
5.1.3 15% of 254 000 = 38 100 ✓✓
5.1.4 Wage = 15 × R15 = R225 ✓✓
5.1.5 38% 0f R15 = R5,70
Hourly rate in 2014 = R20,70 ✓✓

5.2.1 Area = Length × Breadth
= 3 m × 3 m
= 9 m² ✓✓

5.2.2 Area = 2(Length × Breadth)
= 2(3 m × 1 m)
= 6 m² ✓✓

5.2.3 Cost = Price × Square meters
= R59,99 × 6
= R359,94 ✓✓

5.2.4 Area of a Circle = πr^2
$= \pi(1,5)^2$
$= 7,07 m^2$ ✓✓✓
Area of the flowerbed = ½(7,07) = 3,54 m²

5.2.5 Volume = ½($\pi(1,5)^2 \times 0,5$) = $1,77 m^3$ ✓✓✓

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QUESTION 6:

6.1.1 n(s) = 16 ✓✓
6.1.2 2 learners ✓✓
6.1.3 Range = 120 – 50 = 70 ✓✓
6.1.4 R100 ✓✓
6.1.5 R90 ✓✓
6.1.6 Mean = $\frac{\sum f}{n} = \frac{1430}{16}$ = 89,375 ≈ 89,38 ✓✓✓

6.2.1 16 km ✓✓
6.2.2 14 min ✓✓

6.2.3 Warm up session 6.2.4 3 times	✓✓ ✓✓
6.2.5 9 min 6.2.6 14 km [25]	✓✓ ✓✓
QUESTION 7: 7.1 Average speed = $\frac{42,195}{2,5}$ = 16,88km/h 7.2 14 aid stations 7.3 4 shopping centers 7.4 1 pm 7.5 2 hills 7.6 8h24 7.7 Kapiolani Park [16]	 ✓✓✓ ✓✓ ✓✓ ✓✓ ✓✓ ✓✓ ✓✓ +1 for notation