

MEMO***Subject: Mathematical Literacy******Grade: 10*****Written questions****Question 1**

1.1 $0.875 = 7/8$ (2)

1.2 Decimal: 0.6; Percentage: 60% (3)

1.3 $5 + 3 \times (12 - 4) \div 2 = 5 + 3 \times 8 \div 2 = 5 + 12 = 17$ (3)

1.4 a) 2600 (1)

b) 2634.79 (1)

1.5 Total parts: $5+7=12$; Number of girls: $7/12 \times 60 = 35$ (3)

1.6 Speed = Distance $\div$ Time = $360 \div 4 = 90$ km/h (2)

1.7 Discount: 12.5% of R4000 = R500; Sale Price = R3500 (4)

1.8 % Increase = $(575-500)/500 \times 100 = 15\%$ (3)

Question 2

2.1 a) $\times 2$ each time (2)

b) 48 (2)

2.2 Direct proportion; straight line through origin (3)

2.3 a) $5 \times 3 = 15 \text{ m}^2$ (2)

b) $24 \div 4 = 6\text{m}$ (2)

Question 3

3.1 a) 6.29 (2)

b) 7 (2)

c) 7 (1)

d) 4 (1)

3.2 Correct bars plotted (3)

3.3 $360^\circ \times 40\% = 144^\circ$ (2)

3.4 a) 0.7 (1)

b) 30% (1)

3.5 a) $5/10 = 0.5$ (2)

b) $8/10 = 0.8$ (2)

Question 4

4.1 Net income = $7500 - (800 + 75 + 600) = R6025$ (3)

4.2 VAT = $1200 \times 0.15 = R180$ (2)

4.3 I = $5000 \times 10 \times 3 \div 100 = 1500$; Total = R6500 (4)

4.4 $200 \times 0.95 = R190$; $50 \times 1.20 = R60$; Total = R250 (5)

4.5 Surplus = $10000 - 8500 = R1500$ (2)

Question 5

5.1 a) 2500m (1)

b) 0.5l (1)

c) 98.6°F (2)

5.2 Perimeter = $2(8+3) = 22\text{m}$; Area = 24m^2 (4)

5.3 Volume = 24m^3 (2)

5.4 Area = 15m^2 ; Paint = $15 \div 5 = 3\text{l}$ (3)

5.5 Speed = $5 \div (25/60) = 12 \text{ km/h}$ (3)

Question 6

6.1 $5\text{cm} \times 1000 = 5000\text{cm} = 50\text{m}$ (3)

6.2 $6\text{cm} \times 50 = 300\text{cm} = 3\text{m}$ (2)

6.3 Door, window, sink symbols correctly identified (3)

6.4 $15 \times 20 = 300\text{cm} = 3\text{m}$ (2)

Question 7

7.1 1,2,3,4,5,6 (1)

7.2 $3/6 = 0.5$ (2)

7.3 HH, HT, TH, TT (4)

7.4 a) $2/5$ (2)

b) $3/5$ (2)

Total: 150 Marks