Phahama Math, Science and ICT School of Specialization

GRADE: 11

MATHEMATICAL LITERACY

TERM 1 Control Test Memo

DATE: 17 March 2025

MARKS: 50

TIME: 1 HOURS

SET BY: Mr. MASIZA and Ms. NTSHEYIYA

MODERATED BY: Mrs. MENZI

Question 1[13 marks]

1.1

1.1.1. $2 \times 5ml✓ = 10ml✓$ (2)

1.1.2. °C =(°F -32°) x 1.8

$(356 - 32)✓ \times 1{,}8✓$

$356°F = 583{,}2°C$ ✓ **(Wrong equation was given to learners)**

OR

$= (365 - 32)✓/1{,}8✓$

$\therefore 365°F = 180°C✓$ (3)

1.1.3. $5ml = 4g$

$10ml = a$

$= \frac{10ml \times 4g}{5ml}$✓

$\therefore 10ml = 8g✓$ (2)

1.1.4. $30min + ✓15\ \text{min}✓ = 45min✓$ (3)

1.1.5. $\frac{36}{12}✓ \times 120g = 360g✓$

$360g \div 1000 = 0{,}36kg✓$ (3)

Question 2 [11 Marks]

2.1.1. $20 + 5 + 5 + 30 + 40 + 15 + 5 + 10✓ = 130\ learners✓$ (2)

2.1.2. $\frac{40}{130}✓ \times 100✓ = 30{,}77\%✓$ (3)

2.1.3. Fancy dress✓✓ (2)

2.1.4. (a) $Preferred\ formal\ wear = \frac{60}{130} \times 100✓ = 46{,}15\%✓$ (2)

(b) $Did\ not\ prefer\ fancy\ dress = \frac{120}{130} \times 100✓ = 92{,}3\%✓$ (2)

Question 3 [26 marks]

3.1.

3.1.1. a1 metre $=$ 1,09361 yards

$a = 3\ yards$

$a = \frac{3yd \times 1m✓}{1{,}09361yd✓}$

$\therefore 3yd = 2{,}7m✓$ (3)

3.2.

3.2.1. $1200m \times 10 = 12\ 000m✓$

$\frac{12\ 000m}{1000} = 12km✓$

$1\text{km} = 0.621371\ \text{mi}$

$12km = a$

$a = \frac{12km \times 0{,}621371mi}{1km}$✓

$\therefore 12km = 7{,}5\ miles$✓ (4)

3.3.

3.3.1. $1\text{ hr }20\text{ min }25\text{ sec} -$ ✓ $1hr\ 15min35\text{ sec}$✓ $= 5min\ 50sec$✓ (3)

3.3.2. Maureen: $09{:}00{:}00 - 1{:}20{:}25$✓ $= 07{:}39{:}35$✓

George: $09{:}00{:}00 - 1{:}15{:}35$✓ $= 07{:}44{:}25$✓ (4)

3.3.3. $7 + (39 \div 60) + (35 \div 60 \times 60)$

$= 7h + 0{,}65h + 0{,}0097h$

$= 7{,}65hrs$✓

$Average\ speed = \frac{distance}{time}$

$= \frac{20km}{7{,}65h}$ ✓

$2{,}51km/h$✓ (3)

3.4.

3.4.1.

Number of leaners	1	2	3✓	4	5✓
Cost per learner (in rand)	R1000	R500✓	R333.33	R250✓	R200

3.4.2. Both Labels✓✓, (1;R1000) ✓, (3;R333.33) ✓, correct graph✓

Graph on the ANNEXTURE A. (5)