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Gr. 12 Prelim Exam Paper 1 MEMO

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Q1

1.1 a.) 1975 ✓ 1

e.) $3 \times R 749,07 = R 2 247,21$ 2

b.) $\frac{176}{5} = 35,2$ ✓ 1

3.4 a.) $4699 - \frac{25}{100} \cdot 4699 = R 3524,25$ 3

1.2 $\frac{1950}{1,609} = 1211,93$ miles ✓ 2

b.) $4500 - 0,15 \cdot 4500 - 120 = R 3705$ 3

1.3 $^{\circ}F = 1,8(20) + 32 = 68^{\circ}F$ ✓ 2

c.) $4995 - 270 = R 4725$ ✓ 1

1.4 a.) $\frac{936989}{11} \times 6$

d.) Kulula ✓ 1

$= 511084,91$ ✓ 3

$= 511084$ adults ✓ 2

b.) $9,36989 \times 10^5$ ✓ 2

c.) $\frac{44038483}{936989} = R 47$ ✓ 2

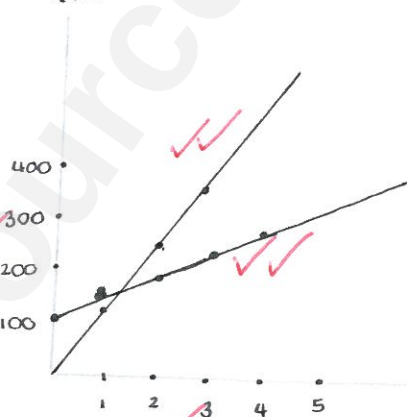
Q4

1.5 1600 ✓ 2

4.1

	1	2	3	7	9
LP:	120	240	360	840	1080
D:	150	200	250	450	550

4.2



Q2

2.1 $4639 \times 0,08$

$= R 371,12$ ✓ 2

2.2 $371,12 + 215 \times 36$

$= R 8111,12$ ✓ 3

2.3 $A = 4639(1 + 0,09)^3$

$= R 6007,64$ ✓ 4

2.4 $\frac{6007,64}{36}$

$= R 166,88$ ✓ 2

2.5 Option 3 ✓ 1

4.3

a.) Hotel Doria ✓ 1

b.) Little Palace ✓ 1

Q3

3.1 $\frac{1950}{500} \times 3,2$

$= 12,48$ cm ✓ 3

3.2 $\frac{1950}{130} = 15$ hours ✓ 2

Q5

5.1 $\frac{3}{8} \times 5m = 1,88m$ ✓ 1

5.2 $\frac{25,99}{12} \times 5 = R 10,83$ ✓ 2

5.3 $\frac{27}{4,5} \times 5 = 30ml$ ✓ 3

5.4 $2 \times 28,35 = 56,7g$ ✓ 2

5.5 $56,7 : 27$

$21 : 10$ ✓ 2

5.6 a.) $\frac{7,99}{6} \times 27 = R 35,96$ ✓ 3

b.) $6 \times 15 = 90ml$ ✓ 2

3.3 a.) $R 11,89 \times 63$

$= R 749,07$ ✓ 2

b.) $\frac{100}{9,3} = 10,75$ km ✓ 3

c.) $63 \times 10,75 = 677,42$ km ✓ 2

d.) $\frac{1950}{677,42} = 2,88 \approx 3$ tanks ✓ 2

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Q6

6.1 a.) $V = \pi \cdot 4^2 \cdot 23$
 $= 1156,11 \text{ cm}^3$ ✓ 2

b.) $1156,11 \text{ ml}$ ✓ 1

c.) $\frac{1156,11}{5} \times 4$
 $= 924,88 \text{ ml water}$ ✓ 3

6.2 a.) $A = \pi \cdot 20^2$
 $= 1256,64 \text{ mm}^2$ ✓ 2

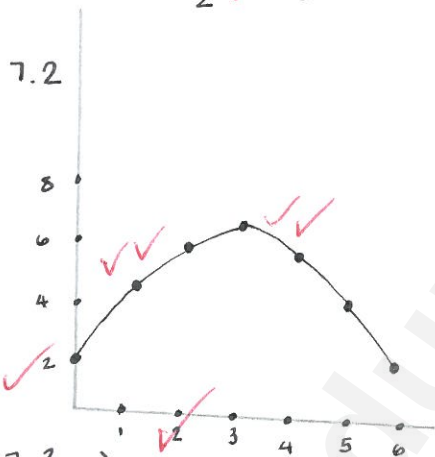
b.) $\sqrt{80^2 - 45^2}$
 $= 66,14 \text{ mm}$ ✓ 2

c.) $A = \frac{1}{2} \cdot 90 \cdot 66,14$
 $= 2976,30 \text{ mm}^2$ ✓ 2

Q7

7.1	2 ✓	0
	4,5 ✓	1
	6 ✓	2
	6,5 ✓	3
	6 ✓	4
	4,5 ✓	5
	2 ✓	6

7.2



7.3 a.) The bird is 2m above the ground at $t=0$. ✓ 1

b.) 3 secs ✓ 1

c.) 6,5 m ✓ 1

d.) 2 and 4 secs ✓ 2

Q8

8.1

	1	2	3	4	5	6	7
1	2	3	4	5	6	7	✓
2	3	4	5	6	7	8	✓
3	4	5	6	7	8	9	✓
4	5	6	7	8	9	10	✓
5	6	7	8	9	10	11	✓ 12
6	7	8	9	10	11	12	✓

8.2 a.) 36 ✓ 1

b.) $\frac{6}{36} = \frac{1}{6}$ ✓ 2

c.) $\frac{1}{36}$ ✓ 2

d.) $\frac{6}{36} = \frac{1}{6}$ ✓ 3

Q9

9.1 2012 ✓ 1

9.2 2011 ✓ 1

9.3 $0 + 4 + 20 + 14 + 7 + 10 + 17 + 10 + 36$
 $+ 50 + 146 + 252 + 425$
 $= 991$
 $\text{mean} = \frac{991}{13} = 76,23$ ✓ 3

9.4

0 4 7 10 10 17 (17) 20 36 50 146 252 425
 $\text{median} = 17$ ✓ 4

9.5 $\frac{50-36}{36} \times 100 = 38,89\%$ ✓ 3

9.6 a.) 267 ✓ 1

b.) Gauteng ✓ 1

c.) 100% ✓ 1