

Gr 12 ML Pi Prelim memo (corrected after Draft 1 + 2)

- 1.1. a i) R 4 064 086 000 ✓✓ 2 L1
 - ii) R 1 729 671 000 ✓✓ 2 L1
 - b 3 billion, nine hundred and three million, six hundred and twenty one thousand. 3 L1
 - c Surplus ✓✓ 2 L1
 - d $\frac{14 74 852}{14 86 931} \times 100\%$
= 99,19% ✓ 3 L2
 - e To determine their tax refund. 2 L1
-
- 1.2. a. R 120 000 $\times 15\%$ = R 18 000 ✓✓ 2 L2
 - b. R 20 000 - R 8 000
= R 102 000 ✓✓ 2 L2
 - c. 21,99 ✓✓ 2 L2
 - d. 5 \times 12 = 60 monthly repayments ✓✓ 2 L1
 - * e. R 2200 \times 60 = R 32 000
es. ✓✓ No (with interest) 2 L1
 - f. A ✓✓ 2 L1
-
- 1.3 a. Operating expenses do not depend on the number of machines made. where production costs do. 2 L1
 - b. 6 sizes ✓✓ 2 L1
 - c. R 2 500 ✓✓ 2 L1
 - d. Profit ✓✓ 2 L1
 - e. $\frac{R 95 272}{485} = R 196,48$ ✓✓ 3 L2

- f. Option 1: R 21 \times 2,14 752 ✓^m
= R 45,10 / m ✓^a
 - Option 2: R 12 \times 4,69 62 ✓^a
= R 56,35 / m ✓^{ca} 4 L2
-
- g. TOC $\times 1,08$ = R 48 500 $\times 1,08$ ✓^m
= R 52 380 ✓
 - TPC $\times 1,07$ = R 46 792,40 $\times 1,07$
= R 50 067,87 ✓
 - TC = R 102 447,87. ✓^{ca}
 - Income = R 240 \times 485 = R 116 400 ✓^m 6 L3
-
- 1.4. a. 480 ✓✓ 2 L1
 - b. A larger amount is invested.. grows faster ✓✓ 2 L1
 - c. R 1 950 000 - R 1 300 000
= R 650 000 ✓ 3 L2

- 2.1. a. 12 cm ✓✓ 2 L1
 b. No ✓✓ 2 L1
 c. All purpose cement
 Sand
 Stone ✓✓ 2 L1
 * d. 5,13 bags ✓✓ 6? 2 L1
 e. 0,67 m³ sand · 1 m³ concrete
 $\frac{0,38}{1} \times 0,67$ sand
 $= 0,25$ m³ sand 2 L2
 f. 4 wheelbarrows ⇒ 0,39 m³
 0,67 m³ ⇒ 1 m³
 $0,39 \times 0,67 = 0,2613$ m³ 2 L2
 g. Yes ✓✓ 2 L1

- 2.2 a. Visakhapatnam ✓✓ 2 L1
 b. 16 sept + 30 days
 = 16 Oct ✓✓ 2 L2
 c. Transport costs Duties ✓✓ 2 L1
 d. Colombo / Singapore ✓✓ 2 L1

- 2.3. a. 2 to 20 years ✓✓ 2 L1
 b. Overweight ✓✓ 2 L3
 c. $\frac{9}{9+12} \times 15$ ml = 6,43 ml ✓✓ 2 L2

- 3.1. a. 03/04/2013 ✓✓ 2 L1
 b. 01058 ✓✓ 2 L1
 c. 18:48 → 24:00 = 5 h 12 min
 $5 \text{ h } 12 \text{ m} + 14 \text{ h } 42 \text{ m} = 19 \text{ h } 54 \text{ min}$ ✓✓ 3 L2
 d. 2 min ✓✓ 2 L2
 e. i) South ✓✓ ii) West ✓✓ 4 L1
- 3.2. a. 0 ✓✓ 2 L1
 b. staircase ✓✓ 2 L1
 c. 56,6 cm ✓✓ + 1 cm 2 L1
 d. $56,6 \times 60 \div 100 = 33,96$ m ✓✓ 2 L2
 e. none ✓✓ 2 L1

- 3.3 a. ✓ N H Z ✓
 Red, N, Red, H, Red, Z ✓
 Navy, N, Navy, H, Navy, Z 3 L2

- b. 6. ✓✓ 2 L1

4.1 a $\frac{2400}{26333353} \times 100$
 $= 0,0091\%$ 3 L2

- b - Must be south african ✓
 - Must be a registered voter ✓ 4 L1

c. If the elections were to be held in Aug/sept 2015, which party would you vote for? ✓

ANC Other 4 L2

d No ✓ 2 L1

4.2 a ANC, DA, EFF ✓ 2 L1

b 28,13% ✓ 2 L2

c 52,28% - 62,35% = -10,07% 2 L2

d DA ✓ 2 L2

4.3 a 19 ✓ 2 L1

b 19, 20, 28, 28, 30,
 30, 30, 31, 32, 37,
 42, 46, 49, 49, 51,
 54, 57, 61, 65 ✓ ascending 2 L1

* c. 37 ✓ 30 2 L1

d. $65 - 19 = 46$ ✓ 2 L2

e. $\frac{5}{19}$ ✓ 2 L2

f. > 50% < 90% ✓ 2 L1

4.4 a. R20k - R40k ✓ 2 L2

b R2.5M+ ✓ 2 L1

c $1+5+2+1+0 = 15\%$
 $\therefore 15^{\text{th}}$ ✓ 3 L2