

QUESTION 1 [11]

1.1.1	15; 18; 21; 24	✓	answer	(1)
1.1.2	3 and 10	✓	answer	(1)
1.1.3	3	✓	answer	(1)
1.1.4	3	✓	answer	(1)
1.1.5	17	✓	answer	(1)
1.2.1	$24=2 \times 2 \times 2 \times 3$ $32=2 \times 2 \times 2 \times 2 \times 2$ LCM=96	✓✓	Prime factorisation	(3)
		✓	answer	
1.2.2	$2 + 1 + 8 + 2 + 7 + b + 2$ $b + 22$ the next multiple of 3 is 24 therefore $b = 2$	✓	add	(3)
		✓	next multiple of 3	
		✓	answer	

[11]**QUESTION 2 [10]**

2.1	27	✓	answer	(2)
2.2	$\sqrt{16+9}$ $= \sqrt{25}$ $= 5$	✓	adding	(2)
		✓	answer	
2.3	$3^4 + (17)^0 - \sqrt{49}$ $= 81 + 1 - 7$ $= 75$	✓✓	simplifying	(3)
		✓	answer	
2.4	$(-1)^3 + 10^2 + 4 \times (-5)$ $= -1 + 100 - 20$ $= 79$	✓✓	simplifying	(3)
		✓	answer	

[10]

QUESTION 3 [21]

3.1.1	$3a - 5b$	✓✓ answer	(2)
3.1.2	$6x - 8$	✓✓ answer	(2)
3.1.3	$2a^2 - 7a + 5$	✓ $2a^2$ ✓ $-7a$ ✓ $+5$	(3)
3.1.4	$-8p^{15}$	✓✓ answer	(2)
3.1.5	$-4a - 3a^3 + 1$	✓✓✓ answer	(3)
3.1.6	$a - 3b - 3$	✓✓✓ answer	(3)
3.2	$\frac{25}{100} \times 600$ $= R150$	✓✓ Multiplication ✓ answer	(3)
3.3	$\frac{2}{3} \times \frac{45}{1}$ $= 30$	✓✓ multiply with ratio ✓ answer	(3)
			[21]

QUESTION 4 [10]

4.1.1	4	✓ answer	(1)
4.1.2	-3	✓ answer	(1)
4.1.3	12	✓ answer	(1)
4.1.4	$-10x^3 - 3x^2 + 10x + 12$	✓✓ answer	(2)
4.2	$[3(3) - (-2)]^2$ $= (9 + 2)^2$ $= (11)^2$ $= 121$	✓ substitution ✓ simplifying ✓ answer	(3)
4.3	$x + 11$ years old	✓✓ answer	(2)

QUESTION 5 [8]

5.1	$2x - 5 = 11$ $2x = 11 + 5$ $2x = 16$ $x = 8$	✓ adding like terms ✓ answer (2)
5.2	$4x - 8 - 3x = 2x - 5$ $-x = 3$ $x = -3$	✓ simplifying ✓ adding like terms ✓ answer (3)
5.3	$\frac{x}{4} + 3 = 9$ $x + 12 = 36$ $x = 24$	✓ LCD ✓ simplifying ✓ answer (3) [8]