

		ATTENAL 40 MARKS		
	Add:26 . 22	SECTION A: 40 MARKS		
1.				
	+ 23	30 + 6 B2 for correct answer 59		
	59	20 + 3 B2707 correct unit of sy		
	36+23=59	50 + 9 = 59		
2.	Write 9416 in words			
	Thousands Units			
	9 416	R2 for correct answer		
	9416=Nine thousar	d four hundred sixteen		
3.	A lesson which lasted 40 n	ninutes ended at 8:10am. At what time did it start?		
		60+10=70 M1 correct method		
	S. T=E.T- Du	ration    70-40 = 30 A1 for 7:30am		
	Hr: Min			
	78:10 <sup>+60</sup>	√follow through Clearly.		
	<u>- 40</u>	√ Reject any answer without a.m.		
	<u>7 : 3 0am</u>	<u>1</u> • it started at 7:30 a.m		
4.	A trader has 8.75kg of suc	ar to be packed in packets of 0.25kg each.		
	How many packets will a t	rader make2		
now many packets will a trader make?				
	No. of packets $=($	8.75÷0.25) M1 for multiplicative inverse		
	FRACTIONS 1	A1 for 35 packets		
	35 <b>~</b>	5 X <u>10</u> 0		
	<del>-10</del>	$\frac{\theta}{1}$ -25 35 packets		
5	Write the port number in the secure as is De			
5.	white the next humber in	the sequence in Roman numerals 1,3,7,13, 21,		
	1, 3, 7, 13, 21, 31	References and the second s		
1	+2+4+6+8+10	NUMBERS M1 for correct pout such		
1.4	21+10=31	NUMBERS 11 101 Correct next number		
	Roman numerals	S. PATTERINS AI for XXXI		
	31 = 30 + 1			
	XXX I			
6.	Write 2684 in standard for	rm.		
	2684 ÷10 = 268.4	(i)		
	268.4÷10 = 26.84	(ii) A1 for correct answer		
	26.84÷10 = 2.684			
-	<u>2.684 x 1</u>			
1.	Solve for P in $6p - 4 = k$ i	f k = 8		
	bp - 4 = K			
	6p - 4 = K 6p - 4 - 8	M1 for correct collecting like terms correct		
	о– т – чо	A1 for final answer P=2		
		2		



Find the number which has been prime factorized  $\{2_1, 2_2, 2_3, 5_1\}$ 4. B1 for multiplication **OPERATION ON** Number =  $(2 \times 2) \times (2 \times 5)$ WHOLE NUMBERS Number  $= 4 \times 10$ A1 for 40 Number = 405. The total surface area of a cube is 150 cm<sup>2</sup>. Find its volume. M1 for correct method Volume =  $5 \times 5 \times 5$  $T \cdot S \cdot A = 6S^2$  $5 \text{ cm} \times 5 \text{ cm} \times 5 \text{ cm}$  A1 for 125cm<sup>3</sup>  $6S^2 = 150$  $\frac{6 \times S^2}{6} = \frac{150^{25}}{6}$ 125 cm<sup>3</sup>  $\checkmark$  follow through clearly.  $\sqrt{S^2} = \sqrt{25}$ ✓ Reject any answer without  $\sqrt{S \times 5} = \sqrt{5 \times 5}$ S = 5 cm Correct units. LENGTH, MASS AND CAPACITY Simplify:  $\frac{3}{4} \div \frac{1}{2}$ 6. M1 for multiplicative inverse  $\frac{3}{4} \div \frac{1}{2} = \frac{3}{4} \times \frac{2}{1}$ **A1** for  $1\frac{1}{2}$  $3 \times 2$ ✓ follow through Clearly.  $\overline{4 \times 1}$ ✓ Reject any answer without clear FRACTIONS  $\overline{2}$  $1\frac{1}{2}$ Area of  $\triangle PRY =$  Area of  $\triangle PRQ$ In the figure below, find the length PY. 7.  $\frac{1}{2}\mathbf{b} \times h = \frac{1}{2} \times b \times h$ O  $\frac{1}{2} \times 12 \text{ cm} \times PY = \frac{1}{2} \times 10 \text{ cm} \times 6 \text{ cm}$ 10c  $\frac{1}{2} \times 12^{6} \text{cm} \times \text{PY} = \frac{1}{2} \times 10^{5} \text{cm} \times 6 \text{ cm}$ 6cm R  $6 PY cm = 5 cm \times 5 cm$  $B PY cm = 30^5 cm^2$ M1 for correct method 6 cm A1 for correct answer length PY = 5cmA man drove his car for a distance of 60 km in 4 hours. Express his speed in mlsed 8. Speed(Km/h) 1km=1000m  $15km = 15 \times 1000m$  $S = (D \div T)$ D = 15000 mM1 for correct method 60km TIME: 1hr = 3600sec4hrs A1 for correct answer 15000m 15km/h $\therefore$  speed = 3600sec There were 40 children and 200 adults at a concert: What fraction of the people 9. **Total no** = 40 + 200were adults?

	Fraction = $\frac{= 240.}{No \text{ of adults}}$ $\frac{200}{240}$ $\frac{5}{6}$			
20.	Given that $P = 6$ and $R = 4$ . Calculate the value of $2R - \frac{1}{2}P$ .			
	$(2 \times R) - \left(\frac{1}{2} \times P\right)$ M1 for correct substitution			
	$(2 \times 4) - \left(\frac{1}{4} \times 6^{3}\right)$ A1 for correct difference			
	8 – 3 5 ALGEBRA			
SECTION B. (60MARKS)				
21.	(a) Simplify: $\frac{0.12 \times 5.4}{0.03 \times 0.6}$ (03 marks) $(0.12 \times 5.4) \div (0.03 \times 0.6)$ follow through the working			
	$ \frac{12}{100} \times \frac{54}{10} \div \left(\frac{3}{100} \times \frac{6}{10}\right) $ $ \frac{12}{12} \times \frac{54}{10} \times \frac{100}{10} \times \frac{10}{10} $ $ M1 \text{ for fractions} $ $ B1 \text{ for reciprocals} $			
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	(b) Express the recurring decimal 0.3636 as common fraction. (03 marks) Let the fraction be (k) $K = 0.3636 \dots (i)$ 100k = 36,3636 $100 \times K = 0.3636 \times 100$			
	-k = 0.3636 100k = 36.3636. (ii)			
	99k = 36 $99k = 36$ $M1  for correct formula$			
	99B1 for correct subtraction4A1 for correct subtraction			
12	$k = \frac{1}{11}$ (a) Write 546 in Roman numerals.			
	WHOLE NUMBERS $546 = 500 + 40 + 6$ $= D XL VI$ M1 for correct method $546 = DXL VI$ A1 for correct answer			
	(b) Find the sum of the value of 8 and place value of 6 in the numeral 8670.			
	Value of 8 is 8x1000=8000 M1 for addition Place value of 6 is hundreds – 100 A1 for correct 8100 Sum is 8000+100 <u>8100</u>			









(a) If a trader has 600 dollars and 400 Kenya shillings, how much money in Uganda shillings can he get from the bank? (03 marks)

1 dollar = Ugsh. 3500 600 dollar = (600×3500) Ugsh.2,100,000 1 ksh = Ugsh. 30 $400ksh = (30 \times 400)$ Ugsh.12000

Total amount (Ugsh. 2,100,000 + Ugsh. 12000)

	Ugsh. 2,100,000				
	Ugsh.	+12000			
_	Ugsh.	2,112,000			

M1 for correct method B1 for Ugsh. 2,100,000 A1 for Ugsh. 2,112,000

(b) Liza has 1050 dollars, how much can he exchange for Kenya shillings. (02 marks)

(Dollars  $\rightarrow$  Ugsh ) Ugsh 1050 × 3500 = Ugsh. 3675, 000 (Ugsh  $\rightarrow$  Ksh)  $\frac{\text{Ugsh. 3675, 000}}{35}$ 49 sh 3675, 0000

Ksh 105000

M1 for changing dollars to Ugsh A1 for converting Ugsh to Kenya shillings

32. The sum of three consecutive Counting numbers is 18. Find the numbers. (04 marks)

1 <sup>st no</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	sum
n	n+1	n + 2	18

1 <sup>st no</sup>	2 <sup>nd</sup>	3rd
5	6	7

value of (n) n+n+1+n+2=18

3n+3=18

3n+3-3=18-3

M1 for correct formation of equation B1 for collecting like terms A1 for correct value of n B1 for correct two last numbers

n=5

NUMBER PATTERNS AND SEQUENCES

END