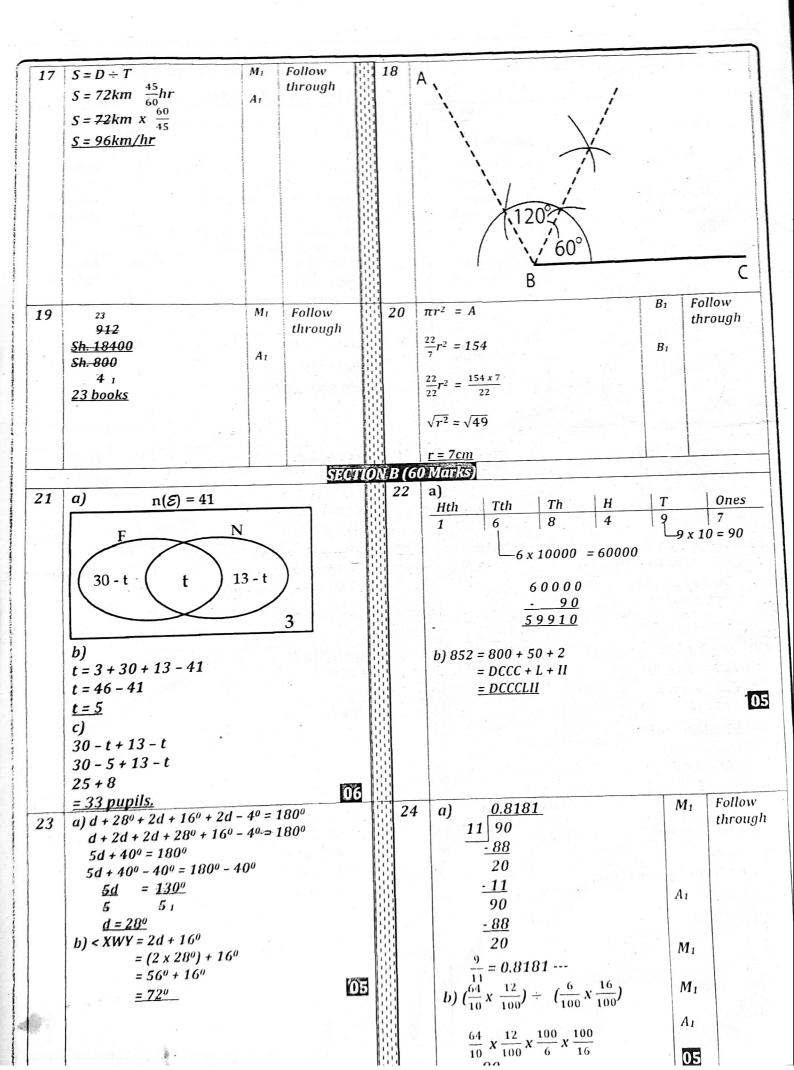
THE PRIME PRE- PLE TRIAL SET II EXAMINATIONS 2022

P.7 MATHEMATICS MARKING GUIDE

				呉	A (40	MARKS) SOLUTION	MAR	COMMEN
NO	SOLUTION	MA RKS	COMMEN		NO	302011011	KS	Tallow
		B_2	T Follow		2	$(A \cap B)'$	B ₂	Follow through
1	$78 \times 0 = 0$	B 2	through	븳		Complement of $(A \cap B)$	B ₁	Follow
		M ₁	Follow	訓	1.	7050 = 7 + 0 + 5 + 0 = 12	DI	through
3	2k +8k - 7k	777	through			1203 = 1 + 2 + 0 + 3 = 6	B ₁	Citroligi
	10k - 7k	A_1						
	<u>3k</u>					thus 7050 is exactly divisible by 6.	Mı	Follow
5	+ 4 - '2 = +6	B_2	Follow		6	0.75 x 100		through
J	4 - 2 = 6		through			0.25×100	A ₁	
						76		es l'estét
			4,		1	$\frac{75}{25} = 3$	1	Follow
	08.163	B_2	Follow		8	$12kg \div \frac{3}{4}kg$	M ₁	through
7	11 12		through			$\frac{12kg}{3}x\frac{4}{3}kg$	Aı	in oug.
	10_2			畠		= 16 sachets.		
	9 3					= 10 Suchets.		
	8 4							
	7 6 5							
	<u> </u>			남	10	25 1	M ₁	Follow
9	101 two	M ₁	Follow through		10	$12 \frac{1}{2} \% = \frac{25}{200} = \frac{1}{8}$		through
	+ 11two	Aı	through			$\frac{8}{8} \cdot \frac{1}{8} = \frac{7}{8}$	A1	
	1000 two	,		鴇		8 8 8		
				13		$\frac{7}{8} \times 80^{-10}$		
						= <u>70</u>	-	Fallow
11	Sample space	B_1	Follow		12	$180^{\circ} - 140^{\circ} = 40^{\circ}$	M ₁	Follow through
11	= { 1,2,3,4,5,6}	100	through			$40 + 40 + e = 180^{\circ}$	Ai	through
		B_I				$80 - 80 + e = 130_0 - 80^0$		12/10
	Desired charices				:	$e = 100^{\circ}$	-	
	$=\{2,3,5\}$	0.00		13	1			
1	$Prob = \frac{DC}{SS} = \frac{3}{6}$			1	1			
13	18 = 2 x 3 x3	M ₁	Follow		14	$P = side(S) \times 4$		
	$F18 = \{2_{1}, 3_{1}, 3_{2}\}$	1 3	through			P = 4s = 72		1.200
	$F30 = 2 \times 3, 5$	A ₁	17770	1		$S = \frac{72}{4}$		
1-1-79	$F30 = \{2_{1}, 3_{1}, 5_{1}\}$					<u>= 18cm</u>		
				13			. 3 - 10	1 43 - 48
	Common factors						4 . 5 1	
	$\{2_1,3_1$							N. T.
	$GCF = 2 \times 3$							
	<u>= 6</u>		0.11	-	1	2 2 4 5 2	M	Follow
5	$C = \frac{1}{4} \pi d$	M_1	Follow		16	$2-2-x \leq 5-2$	1.1	through
	$C = \frac{1}{4} \times \frac{22}{7} \times \frac{28}{7}$	A 1	through			$-x \leq 3$		unoug
	, , , , , , , , , , , , , , , , , , ,	A	190			$-\underline{x} \geq \underline{3}$ $-1 - 1$	A	1
	C = 22		6.15					1
	P = 22m + 14cm + 14cm			1		$x \geq -3$		3
.	P =50cm		9.0	,	:			
			100			The state of the s		
							10 1	
				1				
		1		1				
			1	1				
		111	1				1	
		,		1				
	· ·	- y 1985	1	1				
		1	7,114	1	311			Y



25	a) <u>1</u> <u>170000</u>		26	$\begin{array}{r} a_1 & {}^{225cm^2} \\ & 4725cm^2 & = 225cm^2 \end{array}$	B ₁	Follow through
	35				Bı	
	Ksh 42000	18		21 1	D 1	
		18	3.12	$\sqrt{225cm} = 15cm$	Bı	
	300	18		Each side of the tile = 15cm		
	$b) \frac{400 \times 3600}{4800}$			Longth of the floor = 15cm x		
	$\stackrel{12}{\cancel{E}} = 300$			= 105cm	M ₁	
	22300	13		b) Width	1	
		13		15cm x 3	A ₁	
		18		= 45cm	111	
				P = 2(105cm + 45cm)		
				$P = 2 \times 150 \text{cm}$	05	
					UE	
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			<u>P = 300cm</u>	M_1	Follow
27	a) HR MIN		28	a) $I = P \times R \times T$		through
۷,	11 3 0am			18000 30 7	A ₁	
	+ 3 45			$I = 360,000 \times \frac{30}{100} \times \frac{7}{2}$	1	
	$\frac{7}{15}$ $\frac{15}{15}$		1	$I = 18000 \times 21$		
	- 12 00		-	1 = 10000 A Z A	84	
	$\frac{12}{3}:\underline{15pm}$			<u>1 = sh 378000</u>	M_1	
				D 1		
	b) $D = S \times T$		3.5	b) Amount = P + I = Sh 360000	A_1	
	$D = 64 \frac{km}{hr} \times 3^{3/4} hF$	- (3	1.7	= 50 300000		
				+ Sh. 378000	04	
	$= 64km \times \frac{15}{4}$	For the		Sh 738000		
	<u>= 240km</u>				M ₁	Follow
29	a) $5p + 5x$					through
	(5 x p) + (5 x x)				M ₁	
	$(5 \times 6) + 5 \times 5p$				1	
	$30 + 5 \times 5 \times 6$				A ₁	
F. 1.	30.120					
	= <u>180</u>	**	-*	- [] >	A ₁	
	b) 4 * * * * * *	2 3	4.	5 6		
	$x = \{-3, -2, -1, 0, 1, 2, 3, 4\}$				04	
	X = {-3, 2, 1, 0, -1 = 1 - 1			200 000 3000	B ₁	
-	Volume _ πr2h	T.	31	a) $y + 2y + 60^{\circ} + 90^{\circ} = 360^{\circ}$	1	
30	$\frac{volunte}{1000} = \frac{N}{1000}$			$3y + 150^\circ = 360^\circ$	11.77.51	
	$\frac{22}{7} \times 70 \times 70 \times 200$	13		$3y + 150^{\circ} - 150^{\circ} = 360^{\circ} \cdot 150^{\circ}$	M_1	
	1000	[4]		700	MI	
	22 x 10 x 70 x 200			$3y = 210^{\circ}$		
	1000			3 3		
				$y = 70^{\circ}$	A_1	
	1540 x 2	PSP I		70° repr. 210		
	1540 x 2 = 3080 litres				5 15	
	1540 x 2 = 3080 litres				35734	
		02		1º repr. <u>210</u>	M ₁	
		<u>02</u> 1		1º repr. <u>210</u> 70	M_1	
		2		1º repr. <u>210</u> 70 1º repr. 3 pupils	M ₁	
		21		1º repr. <u>210</u> 70 1º repr. 3 pupils 360º repr. 360 x 3	M_1 A_1	
		62		1º repr. <u>210</u> 70 1º repr. 3 pupils 360º repr. 360 x 3 = 1080 pupils	A ₁	
		3		1º repr. <u>210</u> 70 1º repr. 3 pupils 360º repr. 360 x 3 = 1080 pupils	A ₁	
		3		1º repr. <u>210</u> 70 1º repr. 3 pupils 360º repr. 360 x 3		
		3		1º repr. 210 70 1º repr. 3 pupils 360º repr. 360 x 3 = 1080 pupils b) $\frac{90}{360}$ x 100%	A ₁	
		3		1º repr. 210 70 1º repr. 3 pupils 360º repr. 360 x 3 = 1080 pupils b) $\frac{90}{360}$ x 100%	A ₁	
		8		1º repr. 210 70 1º repr. 3 pupils 360º repr. 360 x 3 = 1080 pupils b) $\frac{90}{360}$ x 100%	A ₁	
		3		1º repr. 210 70 1º repr. 3 pupils 360º repr. 360 x 3 = 1080 pupils b) $\frac{90}{360}$ x 100%	A ₁	
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