MTC SPECIAL MOCK GUIDE -2023

	SPECIAL MOCK MTC GUIDE	- 2	1023
W	COLUTION	M	COMMENT
١.	$12 \div 3 = 3 \int_{1}^{0} \frac{4}{7}$ $0 \times 3 = \frac{0}{7} = 2$	B2	Award B2 for 4.
	4×3=-1 2 -1.12+3 = 4		1 1 12 6-11 611
2.	Eleven thousand = 11,000 eleven + 11	B2	Award B2 for 11,011
	11,011		
3.	5p-9d+p+4d 5p+p+4d-9d 6p-5d	,ml	Award my for collecting liketern Award Ay for 6p - 5d
4.	3 - L (LCM = 12) 3 - L (LCM = 12) 3 x は - L x 通 8 - 3 12	_	Award my for the correct working.
	$\frac{3}{12}$ 12 12 $\frac{3}{12}$ 12 $\frac{3}{12}$ 12	٨,	Award Al for 言
5.	Subsets & 3, 2 c 3, 2 a 3, 2 t 3, 2 c, a 3 & c, t 3, & t, a 3, & c, a, t 3.	B2	Award B2 for listing all the Subsets in Set K correctly. Reject 8 subsets
G.	9 - 3y > 3 9 - 9 - 3y > 3 - 9 -3y > -6	m	Award my for collecting of like- terms. Award Al for
	-37 L -6 -37 L -2	Aı	7 6 2 0 0 2 > 7

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QH	SOLUTION	M	COMMENT
7.	T 0 t h G4.97 + 0.12 G5.00	٨١	Award my for correct Working. Award Ay for 65.0 Reject +1
8.	6:40 a.m +00 00 hrs 06 40 hrs	1	Award MI for correct Working. Award AI for 0640hs
9.	measuring of angles using the protractor. Accept the correct angle 90+ after measuring using a protractor.	B	Award B2 for the correct angle got after measuring wing a protractor.
10	1kg = 2 halves 1bky = 3 halves Cost for 1bkg of sugar Sh. 2500 X Sh. 7,500	81	Award By for 3 holves or for the cost of they as Sh. 5000. Award By for Sh. 7,500.
	Tens Ones Bose No Kem 2 13 1 2 15 0 3 1 1 3 1 1 1 3 1 1 2 10 1 3 1 1 1 1 1 1 1 1 1	m I	Award Al for 1101 two
12.	Age = C.Y - Y.O.B 400 - (-500) 400 + 500 900 years old.	M	Award my for correct working.

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01	SOLUTION	M	COMMENT
13.	Black Blue 15% (100-15)7. = 85%.	В	Award By for 30 of
	1 % rept 3 pens 1 % repts = 15 85% rept (3x85) blue pens		Award By for 17 blue pens.
	1 XI7 blue pens 17 blue pens	ы	Accept any other correct working.
14.		wi Int	Award my for correct Working Award Ay for -27
i 5.	1 Kg = 1000g		Award my for correct Working.
	= (3 × 1000) 5 = (3 × 1000) 5 - 2 × 1000 5 - 2 × 1000 5 - 2 × 1000 5	A	Award A, for 750g.
16.	Highest number = GCF+Ren 2 3 6 48 2 × 2 × 3 + 0 2 18 24 4 × 3 + 0 3 9 12 12 + 0		Award my for the correct method.
17.	? The highest number of pupils is 12 3P-10° = 50° 3p-10°+10° = 50°+10° 3P = 60° P = 20°	M	Award my for correct formation of the equation
	$\frac{3P}{3P} = \frac{60^{\circ}}{3} P = 20^{\circ}$	*	Award Ay for 0 - 200

en en	SOLUTION	M	COMMENT
18.	AX7791589 -AX7791690 99+1	B	Award By For 100
	Amount Sh. 50,000×100 Sh. 5,000,000	B	Award B1 for Sh. 5,000,000
19.	Sh. 400,000 × 76:100×4 Sh. 400,000 × 76:100×4		Award my for Correct substitution in the formular.
	Sh. 4000 x 30 Sh. 120,000	A	Award Ay for Uh. 120,000
	The som 3 nd 3 n	m ₁	Award My for correct substitution in the formular for pythagoras theorem. Award Ay for 3m

. 1		1	
BH	SOLUTION	W	COMMENT
21.	$\frac{2}{0}$ $\frac{3}{1}$ $\frac{2}{2}$ $\frac{8}{3}$ = 2 rem 2	mı	For correct working
(a)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	A١	
P	77 7 0 K H 2 Seven K × 7 × 7 = 1 + 3 K × 7 × 7 = 1 + 3 K × 7 × 7 = 1 + 3	mı	Award MI for correct formation of the equation. Award AI for K=3
	7×7 7×7 .k = 3	Aı	
22.	Sketch S/ >>1 R	S	For detailed sketch.
	5.5cm Q	4	For 120°
		cl	For 60°
	5 5.5cm	7R	
1	5.5cm f 5.5cm f 5.5cm f 5.5cm f	~	
(d	p 5/stch Q / SQ = 5.6cm	ВІ	Accept 5.5cm 5.6cm 5.7ch

MB	SOLUTION		M COMMENT
23 a)	Th H T 0 3706 1 10nes 3x1000	1 2999 2999	My Award My for Subtraction Ay Award Ay for 2999
b)	78.24 - 10 =	7.824	my for division
1	-1.78.24 =	7.824×10	A1 For 7.824 x10
24. A	3r + r + 15 + 17 Hr + 32 Hr + 32-32 Hr	= 60 = 60 - 32 = 28	My Award my for correct formation of the equation.
	Total_	= 22 = 7	Award Al for the All Value of r = 7
	60 + 7-4 60 + 7-4 60 + 3 63 +0	urists	Award By for 63
Ы	Event asked		Award By for 3
	r - 4 7 - 4 3	n(b·c) n(T·c)	P)
		N(T.C) <u>3</u> 63	By Award By for 3

RH	SOLUTION	M	COMMIENT
25. a)	H/4 15 4 H/ + H/4H = 104 10 maly H/4 15 4 H/4 = 104 10 maly H/4 15 4 H/4 = 104 10 maly	wl	Award my for correct formation of the equation
	$ \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} = \frac{1}{12$	41	Award Al fory=5
	E 113	EI	Award By for 8m as longth.
p)		. 1	Award My for correct Medhod. Award Al for Hospin
- 13	Shirts Shoes Trousers & 3 1 2 3 3 3 5 4 2 4 3 4 3 4 4 3 4 4 5 1 2	1	For the convect table with the guantity of each item. Tor the less ratio.
-	1 part repts 12 items 1 part repts 13 items 1 part repts 4 items Fibuser (Shirt Shors B	1	on sh. 300,000
100	5h. 240,000 Sh. 300,000 \$. 320,000	10	or Sh. 320,000

14	SOLUTION	181	COMMENT
	Total Expenditure Sh. 240,000 Sh. 300,000 + Sh. 320,000	В	Award B1 for Sh. 860,000
27	$a(0) \ Y = 2 \times 3 \times 3$ Y = 18	M1	For the correct equation For Y = 18
11	$K \times 3 \times 2 = 30$ $6K = 30$ $6K = 30$ $6K = 5$	m)	For k = 51
رط		BI	For 6
28	C = 22 × 2× 45 cc C = 22 × 12 cn C = 26 + cm Length of the pole 26 + cm	m ₁	For correct working
	Length from School to Shop 264 cm × 50 2640 X 13200cm Length in metres	*1	For multiplication For 13200 cm
	1m = 100 cm 132 pp c/m 180 c/m 132 metres	my	For division.

M	SOLUTION	M	COMMENT
29. a)	Speed = Distance: Time 168km: 3½ hrs 168km: ½ hrs +68km x 2 hrs 24tmx2 hr	mj	Award my for correct substitution in the formular. Award by for H8 km/hr.
5	Distance covered in 4hrs S × T 348 × 4 H8Km × 4 W/s 192	B)	Award By for 1924m
	Fuel needed to cover 192km 2km take 1 little 1 km takes & little 192km take (\$x\$\$)ites 1 x 24 littles		tward By for 24 litres of fuel.

M	SOLUTION	M	COMMENT
30	P Y 2 2 Y Q 2 Y Y Q 2 Y Y Q 2 Y Y Q 2 Y Y Q Y Y Y Y		Award my for correct formation of the equation.
	Consider anyte RPQas 7		Award Ay 30°
(a)	24+1+90° = 180° 34+90° = 180° 34+90°-90° = 180°-90° 34 = 90°	pr)	
	37 = 90° = 40° = 30° 1 = 30°	A	Award By For 60°
	LPQT = 27 2 x 30° 60°	BI	
P	LQTS = 180° - 27 180° - 60° 120°	-47 pr1	Award My for correct method. Award Al for 120°
31	Women Men Children	B	Award BI for 15
a)	4 2 5 80	BI	Award By for 3
b)	2 parts rept 30 people 1 part repts 30 people		Award By for 15
	1 part repts 15 people	BI	tward my for correct method.
	15 ×5 75 people	*1	Award Al for 75

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40	SOLUTION	M	COMMENT
32.	Sum of marks = Average No of Pupils (3x70) + (hx40)+(2x30)+(1x90) = 52 h+ 3+2+1		Award my for correct substitution in the formular.
	$\frac{210 + 40h + 60t90}{h + 6} = 52$ $\frac{(40h + 360) \times h + 6}{h + 6} = 52(h + 6)$ $\frac{1}{1}$ $\frac{1}{$		Award my for final collecting of liketerms.
	40h-52h = $52h-52h-48-12h$ = $-48-\frac{12}{12}h = -\frac{14}{12}h$ = 4	m)	Award Ay for h=4
	h+6 (++6) pupils	۸.	Award my for addition. Award Ay for 10 pupils.
	test.		