

TAAND EXAMINATIONS BOARD

PRE-PRIMARY LEAVING EXAMINATION, 2024

MATHEMATICS (SPECIAL PAPER)

Time Allowed: 2 hours 30 minutes

Random Number				Personal Number			

Candidate's Name:
Candidate's Signature
School Name:
District:

Read the following instructions carefully:

- This paper is made up of two Sections: A and B.
- Section A, has 20 short-answer questions (40 marks) and Section B has 12 questions (60 marks)
- All the working for both sections A and B must be shown in the spaces provided.
- All working must be done using a blue or black ball point pen or fountain pen. Only diagrams should be done in pencil.
- 5. No calculators are allowed in the examination room.
- 6. Unnecessary alteration of work may lead to loss of marks.
- Anyhandwritingthat cannot easily be read may lead to loss of marks.
- 8. Donot fill anything in the boxes indicated "For examiners' use only"

FOR EXAMINERS'								
USE ONLY								
Qn. No.	Marks	Exrs' No.						
1-5								
6 - 10								
11 - 15								
16 - 20								
21 - 22								
23 - 24								
25 - 26								
27 - 28								
29 - 30								
31 - 32								
TOTAL		j.						

Turn Over

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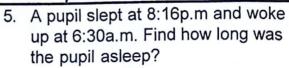
SECTION A: (40 Marks)

Answer all questions in section A. Each question carries 2 marks.

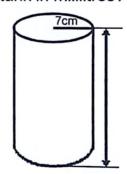
1. Work out:

2 2 x 3

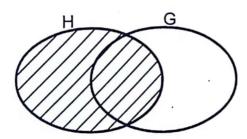
2. Find the value of 7 if its place value in a number is thousands.



6. The capacity of the tank below is 10.8 litres of water. Find the capacity of the tank in mililitres?



3. Describe the shaded region in the Venn diagram.



4. Simplify: -2 + -3 =

7. Work out: $53 - 15 \div 5 =$

TAAND P.7 MATH PRE-PLE SPECIAL PAPER, 2024

Write down the time shown on the clock face below.



12. Find the least value of p in a three digit number 31p so that it is divisible by 6.

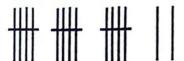
9. The temperature on a top of mountain Rwenzori in the morning is -11°C, at midday the temperature rose to 8°C. Calculate the temperature range.

13. Using a ruler, a pencil and a pair of compasses only.

Construct an angle of 135°.

10. Prime factorise 36.

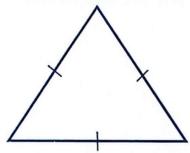
11. Write the number represented by the tallies below.



15. Write 409 in Roman numerals.

16. In a P.7 classs of a certain school there are of 40 candidates. The probability of picking a candidate to get a mathematics textbook is ²/₅. How many candidates do not get a mathematics text book?

17. Find the number of lines of folding symmetry in the figure.



18. The mass of a packet of biscuits is 1.5kg. Find the mass of the packet of biscuits in grammes.

19. 28% of the farmer's total produce is maize grains. The rest of the produce is millet grains. If there are 7200kg of millet grains, how much total produce does the farmer have altogether?

20. Change 22_{ten} to base three.

SECTION B: (60 Marks)

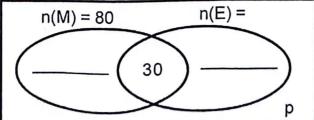
21.(a) 7 men can build a house in 9 days, how many, more men can build the same house working at the same rate in 3 days? (3marks)

(b) Simplify: $12\frac{1}{2}\%$ of sh.8000.

(2marks)

22. (a) In a P.7 class of a certain school, there are 140 candidates, 80 candidates like Mathematics, the number of candidates who like English is twice those who like none of the two subjects and 'p' candidates like neither subjects. Use the information to complete the venn diagram below. (2mark)

$$n(\Sigma) = 140$$



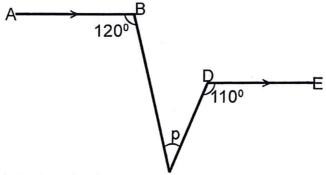
(b) Find the value of p.

(2marks)

(c) Calculate the number of candidates who like English only.

(2marks)

23. In the diagram below, AB is parallel to DE. Study it and answer the questions below.



(a) Find angle p in degrees.

(4marks)

(b) Name the special angle p.

(1mark)

24.(a) Simplify: <u>0.3 - 0.06</u> 0.7 + 0.5	(3marks,
(b) Reduce 4800kg in the ratio of 2:3.	(2marks)
Using a ruler, a pencil and a pair of compasses only, construct PQRT in which diagonal PR = 7cm. Diagonal QS bisects PR a such that QO = 4cm and SO = 6cm.	a kite at O (5marks)

7

Trust Africa Bank bought and sold foreign currencies in Uganda shillings (Ug shs) on a certain day as shown in the table below. Study the table and use it to answer the questions below.

Currency	Buying in (Ug sh)	Selling in (Ug sh)		
1 US dollar	3900	3950		
1 Rwandese Franc	5	9		
1 British Pounding (£)	4800	4900		

(a) A tourist had £220 and exchanged them into Uganda shillings. Find the amount of money in Uganda shillings the tourist got. (2marks)

(b) Another tourist came with 100US dollars and 500 Rwandese Franc. How much money in Uganda shillings did the tourist have? (3marks)

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The table below shows the mass of different pupils measured in a P.7 class. Use it to answer questions below.

Mass in kg	35	45	50	66
Number of pupils	8	4	3	5

(a) How many pupils were measured?

(1mark)

(b) Find the median mass in kg.

(2marks)

(c) Calculate the average mass of measurements.

(3marks)

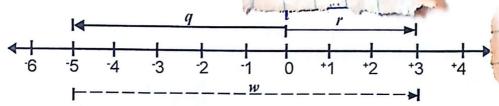
(2marks)

9

(b) Today is Monday, calculate the day of the week that will be 49 days from now. (2marks)

29. Study the numberline below carefull questions that follow.

answer the



(a) Name the integers indicated by the arrows.

(1mark each)

r = _____

w =

(b) Write the mathematical statement for the numberline.

(1mark)

30. A car left town Q at 8:30am to town P 240km away moving at a speed of 60km/hr. It then returned to town Q at a speed of 30km/hr.

(a) Work out the time at which the car reached town P.

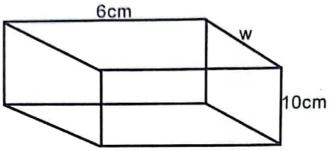
(2marks)

(b) Calculate the average speed of the driver for the whole journey back	
home to town Q. (3mark	ks)

31.(a) Solve for y. 7(3y - 1) - 4(y - 1) = 31.

(3marks)

(b) The mother is 20 years older than the son now. In 15 years time a mother will be twice as old as the son. How old is the mother in 15 years time if the son is y years old now?
(3marks) 32. Study the figure and answer the questions below.



(a) The base area of the figure above is 30cm2. Calculate its width. (2marks)

(b) Work out its volume.

(2marks)

END*

AAND P.7 MTC PRE-PLE SPECIAL PAPER MARKING GUIDE, 2024

SOLUTIONS	MKS	COMMENT	QN		MKS	COMMENT
2 2 x 3			19.	Maize grain = 28% Millet grains = 100%-28% ₹ 72% 72_→7200kg	В	
6 6 ✓ Value = Digit x Place value		On sight		100 72 parts represent 7200kg		
Value = 7 x 1000√ Value = 7000 ✓	A,	Follow through		1 part représents 7200kg 72 = 100kg Total produce = 100parts		Follow through
Set H 2 + 3		On sight_		100parts =100x100kg =10000kg /	В,	
2 - 3 = 5	۸,۱	Follow through Accept use of number line.		OR: Let the total produce be c 72xc = 7200kg /	M,	
Started → 8.16pm Ended → 6:30pm				$\frac{72c}{12} = \frac{7200kq}{12} \times 100$		100
Old day Hrs Min			-	c = 10000kg /	A,	
12 00 8 16 3 44 = 3hrs 44mins ✓ Total time	В,	Follow through	20.	Base Number Rem 3 22 1 3 7 1 3 2 2 0 = 211	M,	Follow through
Hrs Min 3 44 +6 30 10 14 = 10hrs 14mins	В	Follow through	21. (a)	SECTION B: (60 MARKS 9days → 7 men		Follow through
KL HL DL (dL cL ml		· · · · ·		3 days $\rightarrow \frac{3}{9x7}$ men/ 3 = 21 men/ In 3 days = (21-7)men	M, A,	, one is allough
10.8L = (108×1000)mL	M,	Follow through	161	= 14 more men /	В,	
= 10800mL/	A,		(b)			
53 - 15÷ 5 BODMAS 53 - (15÷ 5) 53 - 3 = 50√	M,	Follow through		$\frac{25}{2}$ % x sh.8000 $\frac{25}{200}$ x sh.8000 \checkmark = sh.1000 \checkmark	M, A,	Follow through
8:45 o'clock / OR; 15 minutes to 9 o'clock = 45minutes past 8 o'clock	В	On sight	22.	(a) $n(\Sigma) = 140$		
Range = H - L Range = 8 - 11 / Range = 8 + 11 Range = 19 /	M, A,	Follow through		n(M)=80 n(E)=2P 80-30 (30) 2P 30 P	В, В,	On sight award
2 36 = 2x2x3x3 2 18 OR 3 √9 2,x2,x3,x3, OR OR 1 2°x3²√	M,	Follow through Accept use of factor trees.	(b)	p+2p-30+30+50 = 140 \footnote{3p+50} = 140 \footnote{3p+50-50} = 140-50 \footnote{3p} = 90 \footnote{3p}	M,	Follow through
1 5+5+5+2 = 17 OR (3x5)+2 15+2 = 17√	В	On sight	(c)	p = 30 √ 2p-30 (2xp) - 30 √	A,	
31p digits 0,1,2,3,4,5,6,7,8,9 310 = Divisible by 2 but not 3				(2x30) - 30 60-30 = 30 candidates. ✓	A,	Follow through
311 = Not divisible by 2 or 3 312 = Divisible by 2 both 2 and 3 and 6 m = 2	B,	Follow through	23 (a)	a = 180°-120°	В,	Follow through
1 1		F-11		a = 60° \/ b = 180°-110° b = 70° \/	В,	
1359 1	В,	Follow through		$p + a + b = 180^{\circ} \checkmark$ $p + 60^{\circ} + 70^{\circ} = 180^{\circ}$	м, ,	
1 6p+n+5p-3n 6p+5p+n-3n 11p-2n	В,	Follow through		p + 130° - 130° = 180° - 130° OR: = 50° ✓	A,	
400 = 400+9/	M,	Follow through		1200		
= CD + IX = CDIX√ 6 Get text books = 2 5 3	-			Duckespunding B ₁ p 110°	В	
Didnt get = $\frac{5}{5} \cdot \frac{2}{5} = \frac{3}{5}$ No of candidates = $\frac{3}{61} \times 48$	M,	Follow through		r = 180°-110° = 70°	В,	Follow through for
= 24 candidates \$1	В,	Award for representing the		p + r = 120°√ p + 70° = 120° p + 70° - 70° = 120° - 70°	м,	any other appropriate methods.
3lines of folding	В,	lines on shape. On sight.	(b	p = 50° \(\square\) p = an acute angle. \(\square\) . (0.3-0.06) ÷ (0.7+0.5)	A, B,	On sight
$ \begin{array}{c} 18 & 1 \text{kg} = 1000 \text{g} \\ 1 & 5 \text{kg} = (1.5 \times 1000) \text{g} \end{array} $ $ = \left(\frac{15}{10} \times 1000\right) \text{g} = 1500 \text{g} $	M.		(a			

		IKS	COMMENT	QN	SOLUTIONS	MKS	COMMENT
= 2	100 + 10 / 10 × 10 = 0.2 ✓	M, M, A,	Follow through	30. (a)	T = D = <u>24Økm</u> S -60km/hr = 4hrs√	В,	 Follow through
=	2 x 4800kg / 3, = 3200kg /	M, A,	Follow through		Hrs Min 8 30 +4 00 12 30 = 12 30pm	В,	
d	3.5 PO=OR 3.5 PO=OR 3.0 2 7 -6 = 3.5cm	S ₁		(b)	Time for returning $T = D = \frac{240 \text{km}}{30 \text{k/n/hr}}$ $S = \frac{70}{30 \text{k/n/hr}} = \frac{8 \text{hrs}}{40 \text{km}}$ $AS = \frac{TD}{17} = \frac{(240+240) \text{km}}{(4+8) \text{hrs}}$ $= \frac{400}{42} \text{km} = \frac{40 \text{km/hr}}{40 \text{km}}$	В, М, А,	Follow through carefully.
E G	Accurate: -6 = 3.5cm	ار ادر ادر	Follow through		$7(3y-1) - 4(y-1) = 31$ $21y-7 - 4y+4 = 31$ $21y-4y - 7+4 = 31$ $17y - 3 = 31$ $17y - 3+3 = 31+3$ $\frac{17y}{17} = \frac{34^2}{47}$ $\frac{1}{17} = \frac{3}{47}$	M,	Follow through
1	1 pound = UG sh.4800 220 pounds = 220xUGsh.4800 = UGsh.4800 <u>x 220</u> 0000 9600 9600	м,	Follow through		2(y+15) = y+35√ 2y+30 = y+35 2y+30-30 = y+35-30 2y = y+5 2y-y = y+y+5 <u>y = 5years</u> √ y+35 years 5+35 years = 40 years√	M,	Follow through
b)	UGsh.1,055,000/ 1USdollar=UGsh.3900 100USdollar=100xUGsh.3900 = UGsh.390000/ 1Rwanda Franc = UGsh.5 500 Rwanda Franc =	A,	Follow through	32. (a)	L x W = Base area 6cm x w = 30cm² / 8wcm = 30cm² 6cm w = 5cm /	M ₁	Follow through
	UGsh(500x5) = UGsh.2500 Total UGsh: = 390,000 + 2,500 UGsh.392,500	D ₁		(b)	V = L x W x H V = 6cm x 5cm x 10cm ✓ V = 300cm ³ ✓	M, A,	Follow through
(b)	a) (8+4+3+5)pupils=20pupils Median 36;36;36;35;35;35;35;35;35;45;65;45;45;45;45;45;65;66;66;66;66;66;66;66;66;66;66;66;66	B,	On sight Follow through		**END*	*	
	Mean = $\frac{(35x8)+(45x4)+(50x3)+(6x4)}{20}$ Mean = $\frac{280+180+150+330}{47}$ Mean = $\frac{948}{20}$ $\frac{47}{20}$	M A	carefully				
28 (a	3-5 = (5-11-7)	M					· M
	Monday + 49 = —— (finite7) 1 + 49 = —— (finite 7) 50 7 = 7 Rem 1 It will be a Monday	N					
(;	m = .8 m = .8 m = .2		On sight				
1	= *3 - ·5 = *8	-	3, On sight	-			