GREENHILL PRIMARY SCHOOLS PRE-PLE JOINT MOCK EXAMINATION 2024 (SET II)

MATHEMATICS

Time allowed: 2 hours 30 minutes

Index No.	, Random No.			Per	Personal No.	
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Do not open this booklet until you are told to do so. Read the following instructions carefully

- This paper consists of two sections: A and B.
- Section A has 20 questions (40 marks).
- Section B has 12 questions (60 marks)
- Attempt all questions. Answers to both sections must be written in spaces provided.
- All answers must be written in blue or black ballpoint pen or ink but not in pencil.

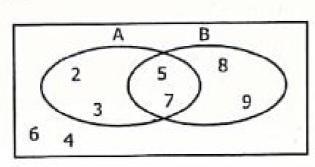
Diagrams should be drawn in pencil.

MINERS	RS USE ONLY	
MARK	SIGN	
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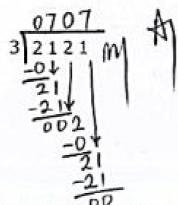
- Crossing out of answers will lead to loss of marks.
- Any handwriting that cannot be easily read may lead to loss of marks.
- Do not fill anything in the box indicated for examiner's use only.

SECTION A:

 Use the Venn diagram below to find the number of elements in complement of set B.



2. Divide:

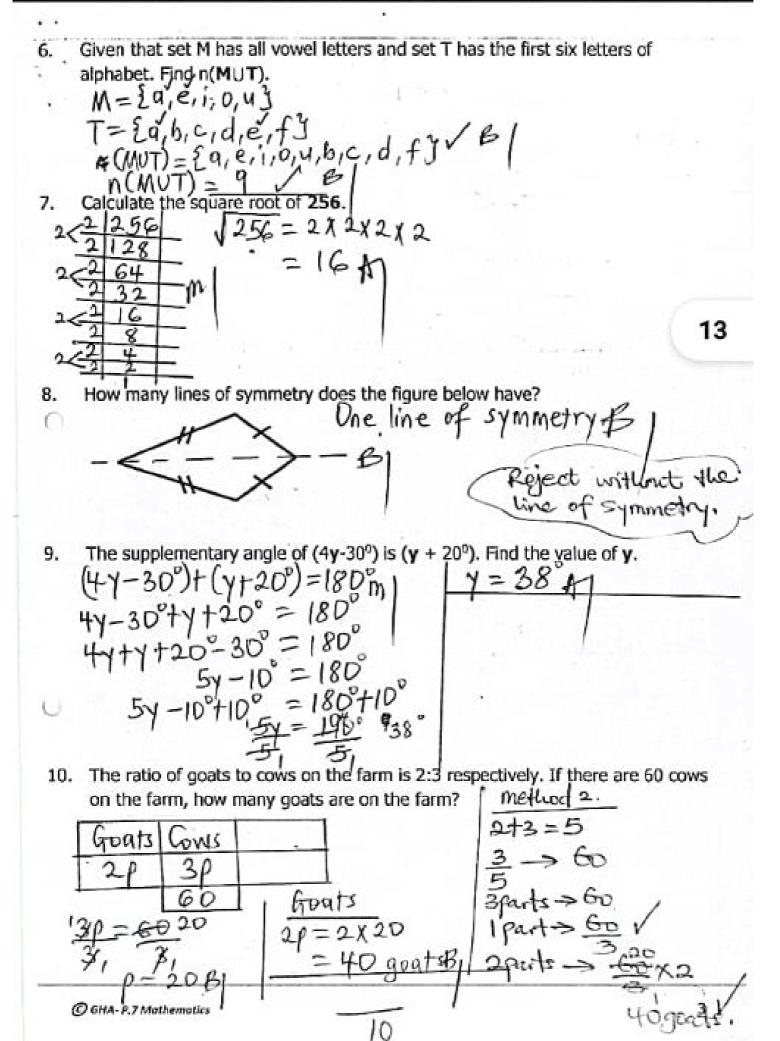


Write in figures forty million forty thousand, forty-nine.

4. Write 499 in Roman numerals.

Subtract 124_{five} from 442_{five}.

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11. A trader sold a radio at sh. 160,000 making a loss of 20%. Work out the price a

trader bought a radio.
$$100\% - 20\% = 80\% / \cancel{8}$$

$$\frac{\%99e}{80} \longrightarrow 5h \cdot 169000$$

$$1 \longrightarrow 5h \cdot 46\frac{2000}{6000}$$

Write $\frac{2}{3}$: $\frac{4}{5}$ as a fraction.

 $\frac{1}{13}$. Simplify: $\frac{5}{12}$ - 1

$$= \frac{5+15-18 M}{12}$$

$$= 20-18$$

$$=\frac{20-18}{12}$$

*14. Solve: 3m = 4 (finite 7)

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15. The temperature of a place is 32°C. Find the new temperature if it drops by

16. Given that a = 10, b = 3 and c = 8. Find the value of 2ab - c.

$$(2x10x3) - (-8)^{m}$$

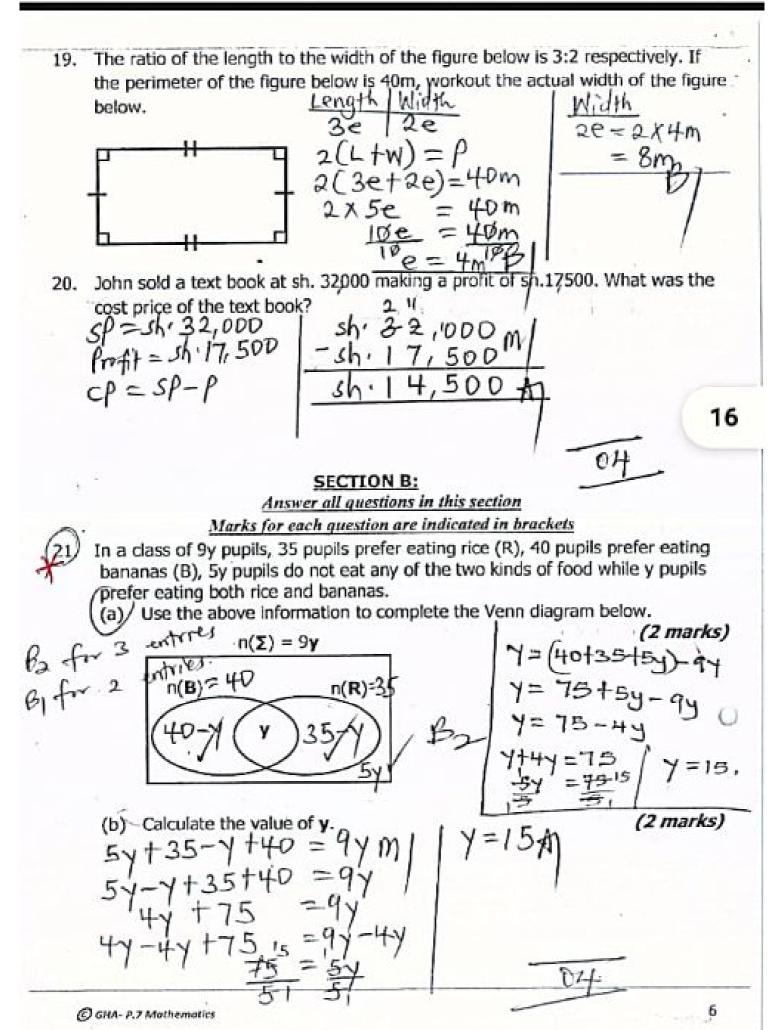
 $60 + 8 = 68 + 1$

17. Work out the average of 3x - 4, 2x + 6, and x + 7

$$3X-4+2X+6+X+7 \\
3 \\
= 3X+2X+X+6+7-4 \\
= 6X+13-4 \\
= 6X+9$$

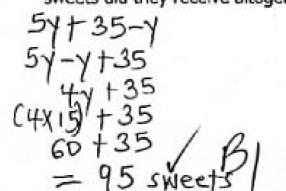
$$\frac{2x}{3}$$
 + $\frac{4^{3}}{3}$ = 2x + 3 +

Convert 1248 hours to a twelve-hour clock system.



(c) If each of the pupils that do not eat bananas received a sweet. How many sweets did they receive altogether? (1 mark)

1 1



- 97-40 (9x15)-40 135-40 95 95 95 95 95
- 22. (a) Write the following numbers in scientific form:
 (i) 8567 $\Lambda = 3$

8.567× 103/B

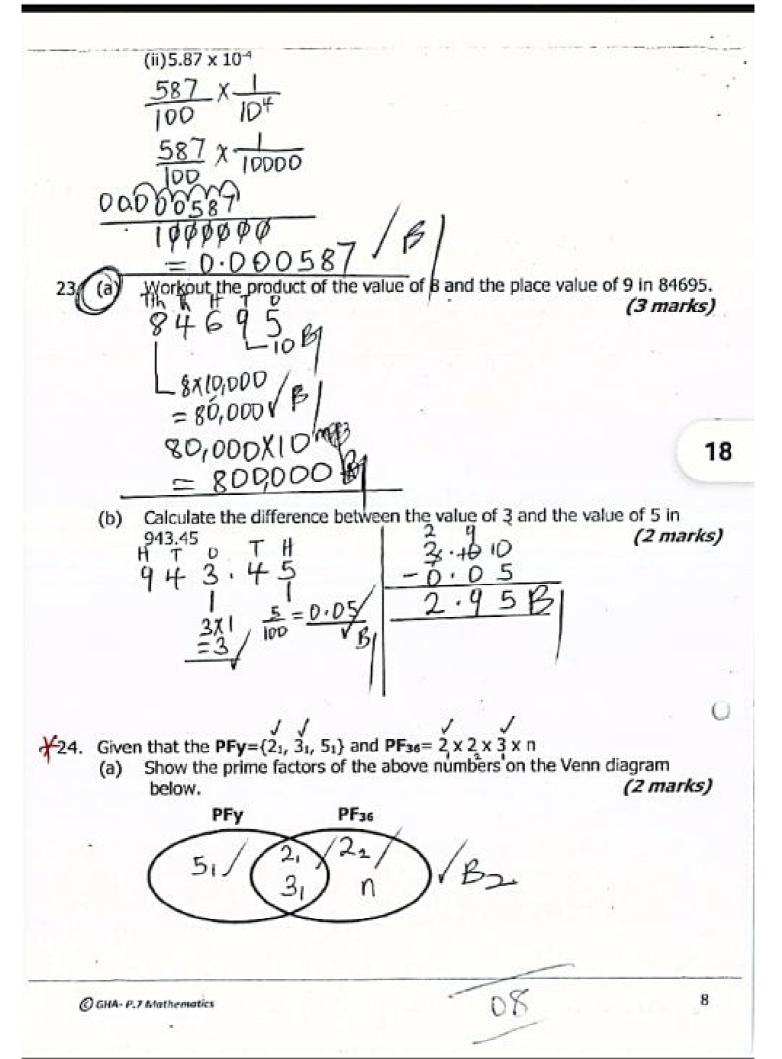
(ii) 789000 n=5 7.89 x 105/5/

- (iii) $0.00564 \quad n = -3$ $5.64 \times 10^{-3} / B$
- (b) What number has been written in scientific notation.
 (i) 2.49 x10³

05

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(i) Value of y.V = 2 x 3 x .

(ii) Value of n.

(fccept n=3)

(iii) LCM.

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Joseph borrowed sh.150,000 from the bank that offers an interest rate of 5% per month for 4 months. How much money did he pay back after that period? P = Sh'150,000, R = 5/0 per month, T = 4 (3 marks)

SI = sh. 1500x 20

sh. 180,000 B/

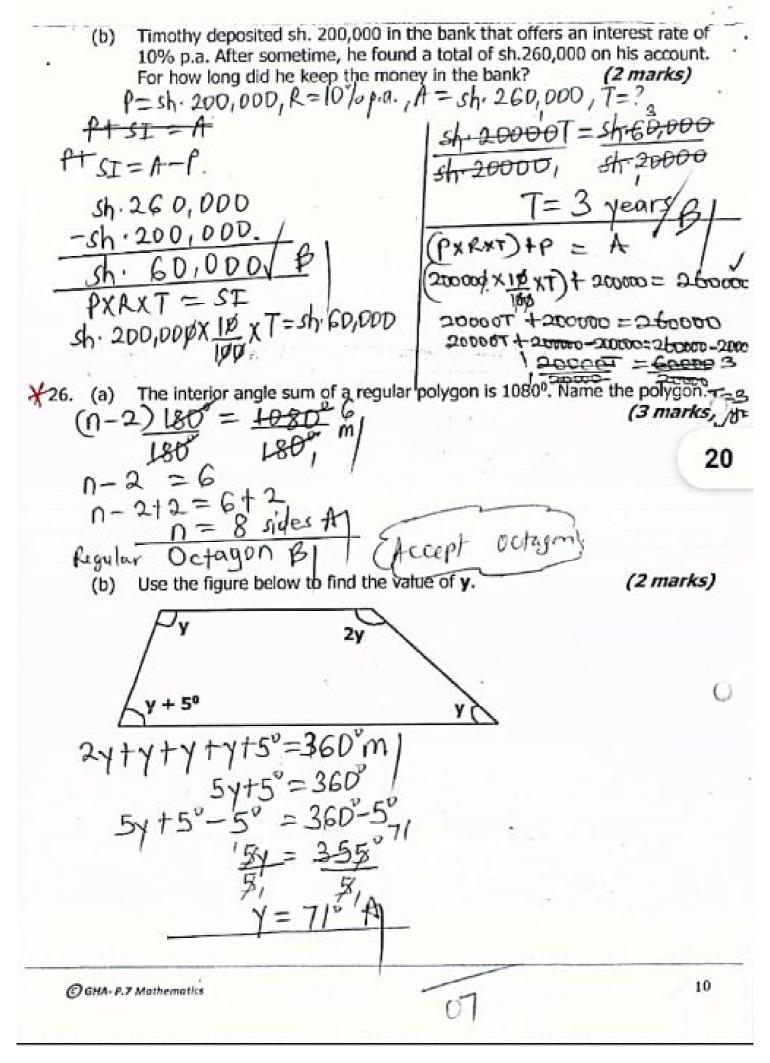
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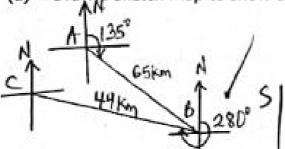
(1 mark each)

Value of
$$y$$
.
 $y = 2x3x5$
 $y = 30\sqrt{\beta}$

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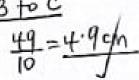


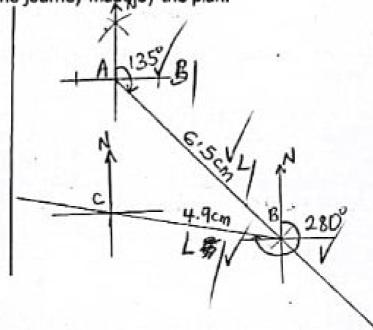
- An aeroplane flew from town A to town B on a bearing of 135° 65km from town A. It then left for town C, 49km away on a bearing of 280°.
 - (a) Draw a sketch map to show the journey for the plane. (1 mark)



(b) Using a scale of **1cm** to represent **10km**. Draw an accurate diagram to show the journey made by the plan. (3 marks)

Scale show A OB 65 = 6.5 cm 10 B to C





(c) What was the shortest distance between town A and town C? (1 mark)

39 X10km

37km38km, 39km, 40km

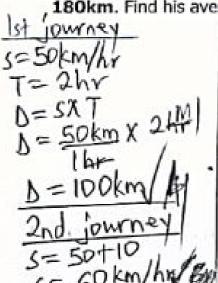
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Kiiza was travelling at an average speed of 50km/hr for 2hours. He later increased his speed by 10km/hr in order to cover the remaining distance of 180km. Find his average speed for the whole journey. (5 mark



0=180km

1	(5 marks)
A-S-=	=56km/h
	VA
	1

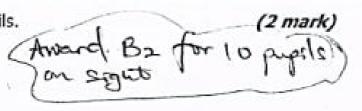
The table below shows the mass of some children. Use it to answer the questions that follow.

Mass in kg	48	65	78	y
Number of pupils	2	4	1	3

(a) Workout the number of pupils.

2+++1+311/6

= 10 pupils A



(b) If the average weight of all the above pupils was 59kg. find the value of

$$\frac{(48 \times 2) + (65 \times 4) + 78 + 3}{10} = 59 \text{ m}$$

$$\frac{96 + 260 + 78 + 3}{10} = 59 \times 10$$

$$\frac{10}{40} + \frac{10}{40} = 59 \times 10$$

$$\frac{10}{30} + \frac{10}{30} = 590$$

$$\frac{30}{30} + \frac{10}{30} = 590$$

37 = +56 52 37 = +56 52 31 = +56 52 4 = 52 kg A) 97 tion 2... 39 t(4802) + (6504) +78 = 591

30. A rectangular tank measuring 20cm lon	6
(a) How much oil in litres is in the tar $V = LX W X H$	nk? (3 marks)
V = LXWXII V = 20cmx 10cm x 5cm/ V = 1000 cm ³ A	
v = 1000 cm3 +	
1000 cm3 = 1 litres 5 x 1 litre = 5 of a litre or 0.83 lit	
5-XIlitre = 6 of alive	-B1
(b) Find the volume of the tank when	completely full of oil (2 marks)
1/1-1 1 1/1-	
Vol. = 20cm XIDcm X 5cm	1
Vol. = 20cm X 10cm X 5cm	(Award B2 for 10 cocm3)
21 Muses is 16 years older than David 10	waare ago, their total ago was 72. How
31. Musa is 16 years older than David. 10 old is each now?	years ago, their total age was 72 . How (5 marks)
Time Wins	191
Now dt16 d.	72
10 yrs ago 4+6 4-101	14 60
0 d + 6 + d - 10 = 72 m	Musa
2d-4 = 72	dt16
2d-4+4=72+4M	38+16 = 54 years old A)
1 20 = 76 38	= 34 years old
=1 = 20 vo for	
1 20 July	4
David = 38 years old	
© GHA- P.7 Mathematics	10

	quantity	elow. Unit cost	Amount	🂣 (5 marks)
Rice Rice	.,		/	2 1
	3kg	Sh.4000	sh. 12,000/1	9
Sugar	2kg,	sh. 4, 500	BSh. 9000	
Salt	46 V kg	Sh.1200	Sh. 5000	
Beans	2kg	sh. 4,009		31
	Total	8	Sh. 34,000	1
Rice	Su		1 GIT	sh. 12,000
	di i	4500	25	sh. 9,000
600X3	/ 3/1-3	1000	st. 5000	Tsh 5,000
4.12,009	- h	4,500	istr. +200	shi26,00g
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