SECTION A. 40 MARKS

Attempt all questions in this section Questions 1 to 20 carry two marks each

1 Work out:

	2	1	4	
+		5	3	
				_

- 2 Write **14,019** in words
- 3. Solve for e e 6 = 11
- 4 Subtract days hours
- 5 Use the diagram below to find the shaded percentage



6 Given that set $\mathbf{W} = \phi$ how many subsets has set \mathbf{W} ?

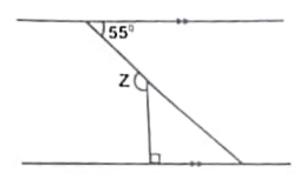
7 Complete the sequence.

1 3 6 18 36

8 The volume of a cube is 27cm¹ Work out its total surface area

9 The probability of electing a boy as a class monitor is 5/9 If there are 36 girls, how many boys are in the class?

Calculate the size of angle marked Z in degrees



11 Find the value of $w = 3w = 4 \pmod{7}$



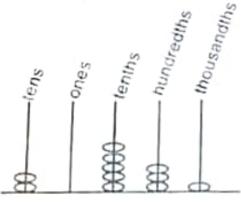
12 A hawker bought 3 dozens of exercise books at sh. 13,500

He later sold each exercise book for sh. 2,200 Calculate his profit

13 Solve and write the solution set for p 6≤ 2p < 10</p>

14 Using a ruler, a pencil and a pair of compasses only, construct an angle of 60°

15 Find the number represented on the abacus below



- 16 A science quiz which ended at 4:15 p.m. took 90 minutes. At what time did it start?
- 17 Oliva bought a television set at Ug sh. 2,190,000 If one US dollar costs Ug sh. 3,650 how many US dollars did she pay?

18 In the diagram below a string is wound round a cylindrical pipe of diameter 14cm

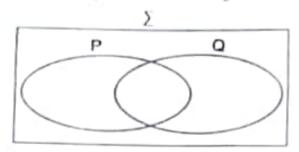


If the string is wound up 100 times, how long is the string?

19. Work out:



20 Shade set Q complement in the figure below



SECTION B: 60 MARKS

Attempt all questions in this section

Marks for each part of the question are indicated in the brackets

21. Babirye bought the following items from the shop

- 2kg of cowpeas at sh 4.000 per kg 12 oranges at sh 1,500 for every 4 oranges 2,500g of rice at sh 6,000 per kg watermelons at sh 10,000

(a) Work out her total expenditure

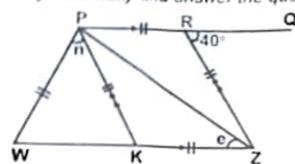
(04 marks)

(b) If she was given a discount of 5%, how much did she pay? 102 marks,



In a class, 331% of the pupils like football, 2 of the	remaining
pupils like Hockey and the rest like Tennis ball. If 30 pullennis ball.	
Work out the fraction of pupils who like Hockey	(07 marks)
of Calculate the total number of pupils in the class.	(03 marks)
23/a) Write the place units of 2 in 224	
23(a) Write the place value of 3 in 321,	(01 mark)
(b) Find the value of 3 in (a) above	(02 marks)
(c) Expand 321 _{five} using exponents	(02 marks)

24 In the figure below, line PQ is parallel to line WZ and angle QRZ = 40° Study it carefully and answer the questions that follows:



(a) Find the size of angle e

(02 marks)

(b) Work out the size of angle n

(03 marks)

25 (a) Solve for b 2(b+4) = b+10

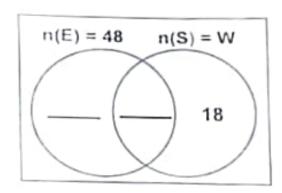
(92 marks)



saucepan costs two fifths of the cost of a bucket. If all items cost in 33,000 calculate the cost of a bucket.

- In a group of pupils, 48 like English (E). W pupils like Social studies (S). Athird of the pupils who like English also like Social studies and 18 pupils like Social studies only.
- Complete the venn diagram below using the information above

(03 marks)



What is the probability of picking a pupil who does not like both subjects?

ı	

* A nucleust left Husberyi at 9:45a.m. and reached Masaka at 11 15 a.m. at a speed of 60km/hour. After staying in Masaka Town for 30 minutes, he moved back to Husbenyi using the same route at a speed of 30km/h

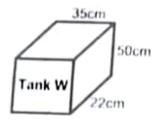
(a) How far is Masaka from Bushenyi?

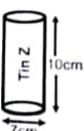
(02 marks)

(b) Calculate the motorist's average speed for whole journey

(0.1 marks)

28 Tin (Z) was used to draw petrol from rectangular tank (W) which was full of petrol





(a) How many full tins (Z) of petrol were drawn from the tank W?

(03 marks)

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5,000, how much more needed to fill tank W?	ney IS (02 marks)		
29(a) Write 394.72 in standard form	(02 marks)		
(b) Solve for k $3^{2k} \times 3^2 = 81$	(02 marks)		
30 Port K is 80km from port W on a bearing of 060° Port Y is 60km from port W on a bearing of 300° (a) Using the scale drawing of 1cm to represent 10km, draw an			
accurate diagram for the above information.	(04 marks)		

(b) Find the shortest distance fromport K to port Y in km

(01 mark)



31 The pictograph below represents tomatoes sold in a market per day by Mrs. Ssebuggwawo.

Maryity	770
Tuesday	ひひひひ
Wednesday	りつのひつ
Thursday	000
Enday	000000 00000

Note presents 10 tomatoes

(a) How many tomatoes were sold on Thursday?

(01 mark)

- (b) How many more tomatoes were sold on Friday than on Tuesday?
- (c) Express the number of tomatoes sold on Monday as a percentage of the total number
- 32(a) Work out 0 24 + 0 6 1 2 x 0 01

(03 marks)

1
$$\frac{1}{6}$$
 × 1 $\frac{1}{7}$ - 2 $\frac{2}{3}$

(02 marks)