## STRAIGHT LINE EXAMINATIONS BOARD

## PRE - MOCK EXAMINATIONS, 2022 MATHEMATICS

Time allowed: 2 hours 30 minutes

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- 1. This paper is made up of sections A and B.
- 2. Answer ALL questions. All answers to both section A and B must be in the space provided.
- 3. All answers must be written in blue or black ball - point pen or fountain pen.
- 4. Unnecessary crossing of work may lead to loss of marks.
- 5. Any handwriting that cannot be easily read may lead to loss of marks.
- 6. Do not fill anything in the indicated "For boxes Examiners' Use only" and those inside the question paper.

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Qn. No.	MARKS	EXRS' NO.
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7-12	The state of	
13-18		
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24-25		
26-28		
29-30		
31-32		
Total		

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## SECTION A (40 MARKS)

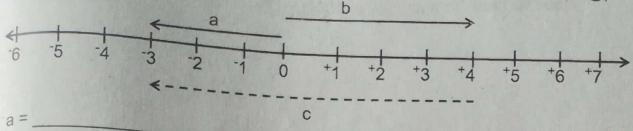
Answer all the questions in this section Questions 1 to 20 carry two marks each

4. Workout: 
$$2 - \frac{2}{3}$$

3. Using a ruler, pencil and a pair of compasses only, construct an angle of 30<sup>0</sup>.

7. Simplify: 
$$8 + 8 \div 8$$

30. (a) Use the number line below to find the value of the letter. (01 mark @)



(b) Write the mathematical sentence represented above. (01 marks)

31. (a) Study and complete the table below:

(01 mark @)

ITEMS	QUALITY	UNIT COST	AMOUNT		
Tea leaves	1 ½ of tea leaves	Sh	Sh. 900		
Posho	2 kg of posho	Sh. 3,400	Sh.		
Soap	bars of soap	Sh. 1,800	Sh. 5,850		
Salt	750gms of salt	Sh. 2,00 per kg	Sh		
F. FRANKS		Total	Sh		

(b) If Amina was given Sh. 1,450 as change after paying for all the items, what did she have at first? (01 mark)

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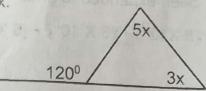
32. (a) Peter's car uses 15 litres of petrol to cover 75km. How much petrol does he need for a journey of 1050km? (02 marks)

(b) If a litre of petrol costs Sh. 3,400. How much money will be spent on petrol needed to run a car for 1½ hours at a speed of 60km/hr?

(3 marks)

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8. In the figure, find the value of



9. Write 3985 in scientific notation.

10. Express 25cm as a percentage of 5m.

11. Write 109 in Roman numerals.

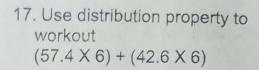
12. Express 12:25pm in a 24 hour clock system.

13. Simplify: 2 - 3(p - 2)

14. Central Primary School will have a netball match with Mantle P/S next week, what is the probability that Central P/S will win the match?

15. Solve: 1 - 3 = w (finite 5)

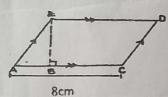
16. Calculate the number of elements in the set with 16 subsets.



20. Write a single number that has been expanded to give.

$$(8 \times 12^2) + (3 \times 10^0) + (5 \times 10^{-2})$$

18. The area of a parallelogram below is 48cm<sup>2</sup>. Use it to find the length BE



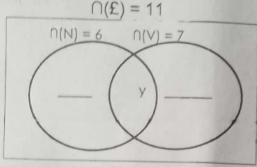
19. John is standing in a line so that he is the 9<sup>th</sup> boy from either sides of the line. How many boys are in the line?

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26. In a family of 11 members, 7 play volleyball, 6 play netball, some members play both games while one person plays none of the two games.

(a) Complete the Venn diagram.

(03 marks)



(b) Find the value of y.

(02 marks)

(c) Workout the probability of picking a member of the family who plays only one game. (2 marks)

27. A bus travelling at 80km/hr took 2 hours 30 minutes to cover part of the journey, the rest of the journey was covered in 1 ½ hrs at the speed of 120km per hour.

(a) What distance did the bus cover altogether?

(03 marks)

28. A girl is 20 years younger than her sister. In 15 years' time, sister will be twice as old as the girl. Workout the age of each person now.

(04 marks)

29. (a) Find the principal that can yield Sh. 7,200 in a bank that gives an interest rate of 20% per year in a period of 6 months. (02 marks)

(b) Calculate the amount of money that will be in that account by the end of the period of 6 months.

(1 marks)

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