

STEM EXAMINATIONS BOARD

PRE-REGISTRATION ASSESSMENT, 2024

PRIMARY SEVEN

MATHEMATICS

Time Allowed: 2 hours 30 minutes

	Random No.	Personal No.
Index No.	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>

Candidate's Name:

Candidate's Signature:

District ID No:

Read the following instructions carefully:

1. Do not write your school or district name anywhere on this paper.
2. This paper has **two** sections: **A** and **B**. Section **A** has **20** questions and Section **B** has **12** questions. The paper has **8 printed pages** altogether.
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the table indicated: **"For Examiners' use only"** and boxes inside the question paper.

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

SECTION A : 40 MARKS.

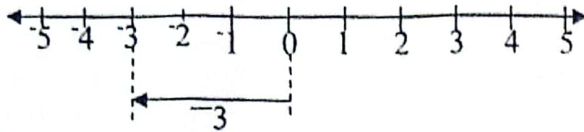
Answer all questions in this section.
Questions 1 to 20 carry two marks each.

1. Add:

2. Find the sum of $3y + 8$ and $5y - 8$.

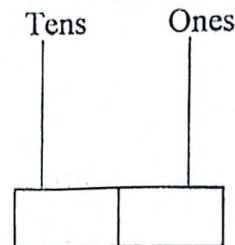
3. Show $+4 + -7$ on the number line below.

4. Select all the prime numbers from the numerals below;
80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90



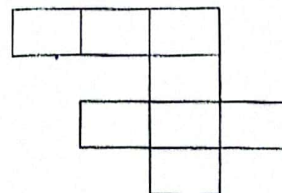
5. A cow gives 5500ml of milk per day.
How many litres of milk does it give in a fortnight?

6. Show 120_{three} on the abacus below.



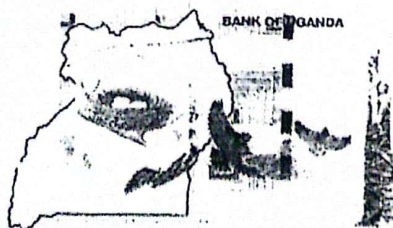
7. We celebrated women's day on Friday 8th March 2024, what is the probability of celebrating it on a day starting with letter "F"?

8. Shade $\frac{3}{4}$ of the figure below.



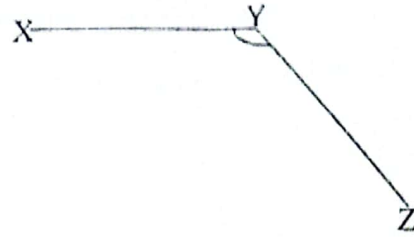
9. If a parent banked a bundle of notes drawn below numbered consecutively from WX010160 to WX010209, how much did she bank?

10. Express 7.04×10^{-3} as a single numeral.



11. Given the sets: $M = \{a, e, n, o, t\}$
 $P = \{e, a, t, o, n\}$
 Find $n(M \cap P)$

12. Using a protractor, measure angle XYZ drawn below.



13. Without dividing, show that 3705 is divisible by 3.

14. Given that $m = 7$ and $n = -7$.
 Work out: $3m - n$.

15. Given that  can hold 1.5 litres, draw similar cups that can hold 6 litres.

16. Joy was the 12th girl from either side of the line at the assembly. How many girls were in the line?

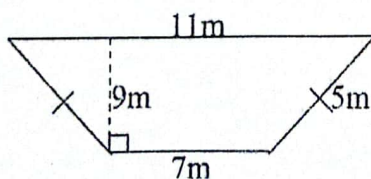
17. The digital watch below shows time
 Ben set to wake him up to revise in the evening. Use it to fill the spaces below.



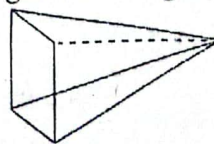
18. The ratio of boys to girls in a class is 3 : 2 respectively. If there are 30 boys in a class, how many pupils are in the class?

Ben wake up atminutes to
O'clock in the evening.

19. Calculate the area of the trapezium below.



20. Find the sum of edges and vertices of the geometric figure below.



SECTION B : 60 MARKS

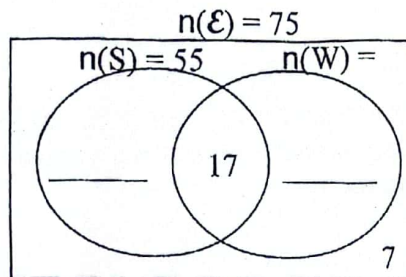
Answer all questions in this section.

Marks for each question are indicated in the brackets.

21. (a) Share 6336 kg of posho by 9 people. (2 marks) (b) Convert 1373 metres to kilometres. (2 marks)

22. In a P.7 class of 75 pupils, 55 drink soda (S), t drink water (W) and 17 pupils drink both soda and water while 7 do not take any of the two drinks.

- (a) Represent the above information on the Venn diagram below. (2 marks)



- (b) Find the value of t . (2 marks) (c) How many pupils drink one type of drink only? (1 mark)

23. Abdul went shopping and bought the following items from the market.

- (i) A bottle of liquid soap at Shs. 8000.
(ii) $2\frac{1}{2}$ kg of sugar at Shs. 4000 per kg.
(iii) 5 litres of fortune butto cooking oil.

If he paid Shs. 48,000 for all the items, how much money did he buy each litre of fortune butto cooking oil? (5 marks)

24. The table below shows marks scored by P.7 pupils in a test.

Marks	30	20	70	80
Number of pupils				

(a) How many pupils did the test?
(1 mark)

(b) Find the median mark scored.
(2 marks)

(c) Calculate their average mark.

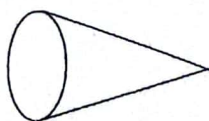
(2 marks)

25. A school bus carries 35 passengers when full to its capacity.

(a) How many passengers will it transport in 18 trips?
(2 marks)

(b) If the bus fare is Shs. 8500 per person, how much money will the conductor collect per trip?
(2 marks)

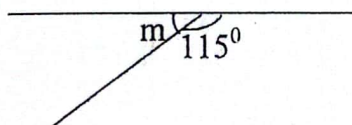
26. (a) Name the geometric figure drawn below.
(1 mark)



(b) Find the complementary angle of 35° .
(2 marks)

(c) Work out the size of angle marked m in degrees from the figure below.

(2 marks)

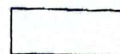


27. Andrew spent $\frac{1}{4}$ of his income on food, $\frac{1}{3}$ on fees and saved the rest.
(a) What fraction of his income does he save? (2 marks)

- (b) If he saves Shs. 80,000, how much money does he earn? (3 marks)

28. A motorist travelled a distance of 360km in 200 minutes from home to town.
(a) If he left home at 9:35am, at what time did he arrive town? (3 marks)

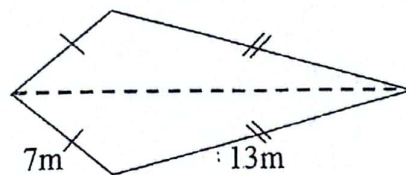
- (b) Calculate his average speed for the whole journey. (2 marks)



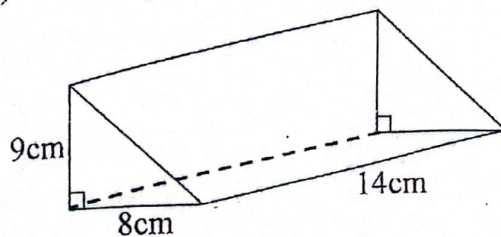
29. With the help of a ruler, a sharp pencil and a pair of compasses only;
- (a) Construct a triangle ABC in which angle $ABC = 120^\circ$ and line $AB = BC = 6\text{cm}$.
(4 marks)

- (b) Measure angle CAB. (1 mark)

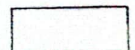
30. (a) Calculate the perimeter of the figure below. (2 marks)



- (b) The figure below is a prism.



- (i) Draw the net of the figure drawn above. (2 marks)
- (ii) Work out the volume of the figure above. (2 marks)



Turn Over

31. (a) Solve for \square : $3\square = 12$

(2 marks)

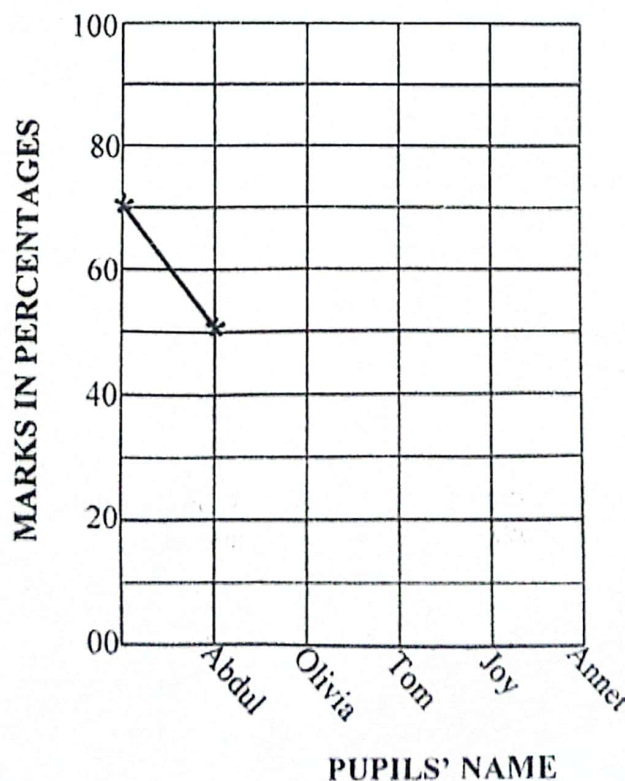
- (b) Annet is 20 years older than Bosco. In 10 years time, their total age will be 60 years. How old is Bosco? (3 marks)

32. The table below shows how different pupils scored in mid-term examinations in science.

Pupils' name	Abdul	Olivia	Tom	Joy	Annet
Marks in percentage	50	90	60	30	70

- (a) Express the score of joy as a ratio of Olivia's score. (2 marks)

- (b) Complete the line graph below showing pupils' scores as recorded above. (4 marks)



END