THE REAL PRIVATE TEACHERS' VOICE EXAMINATIONS BOARD

THE *REAL* VERIFIED UNEB BLUE PRINT ITEMS

FOR PRIMARY LEAVING EXAMINATIONS

2023

MATHEMATICS (SET SEVEN)

Time allowed: 2 Hours 30 Minutes

Index no:

Random No	Personal No

Candidate's name: .....

Candidate's signature: .....

School: .....

District: .....

Read the following instructions carefully

1. This paper is made up of two sections: **A** and **B**.
2. Section **A** has **20**questions **(40 marks).**
3. Section **B** has **12** questions**(60 marks).**
4. Answer ALL questions in both sections **A** and **B.**
5. All answers **MUST** be written in the space provided In blue or black ball point pens or ink. All diagrams Should be in pencil.
6. Unnecessary crossing of answers will lead to loss of Marks.
7. Poor hand writing which cannot be easily read, May lead to loss of marks.

FOR EXAMINERS' USE ONLY		
Qn.No	**MARKS**	**SIGN**
1–10		
11–20		
21–22		
23–24		
25–26		
27–28		
29 – 30		
31 - 32		
TOTAL		

The Real Private Teachers' Voice Examinations Board 2023.

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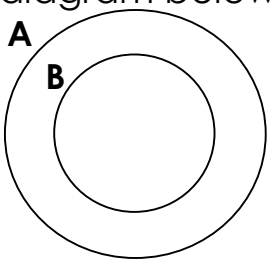
SECTION A (40 MARKS)

1. Workout: 22 x 3

2. Change 0.45 tonnes to kilograms

3. Find the sum of the next two numbers in the sequence.
   0, 1, 5, 14, 30, _____, _____

4. In the diagram below, shade AnB



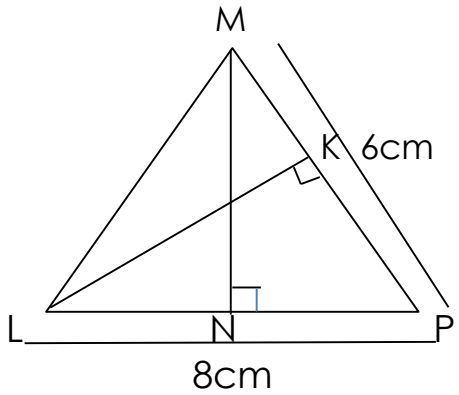
5. The mean of 4, 6, 0, k and 7 is 5. Find the value of k.

6. The temperature of a day rose from -5^0C to 25^0C. What was the rise in temperature**?**

7. Write 144 in Roman numerals.

8. The area of a square chalkboard is 100cm^2. Find the perimeter of the chalkboard.

9. Find the area of MN in the diagram below.

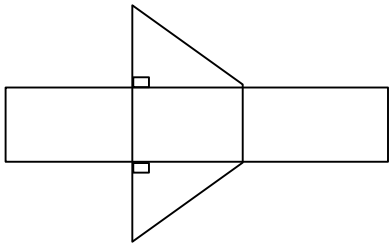


10. Okodoi had a bundle of Shs5,000 each numbered consecutively from TM 476147. How much money did he have**?**

11. Round off 46.798 to the nearest hundredths.

12. Given that FR = $\{2_1, 2_2, 3_1, 3_2\}$ Find the value of R.

13. Name the shape represented by the net below.



14. Solve $4 - 2w < 10$

15. Odiambo's salary was increased by 30%. What is the new salary if the old salary was Shs120,000**?**

16. Mr. Umbria's car broke down after recovering $\frac{2}{3}$ of the journey. If he was left with 120km to complete the remaining part of the journey, how long was the journey**?**

17. Workout: $104_{five} - 22_{five}$

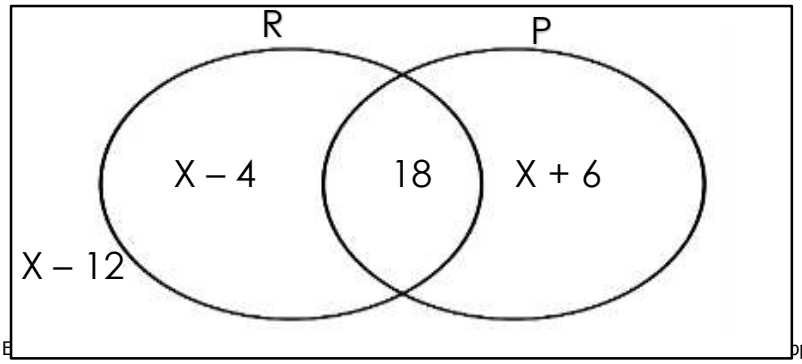
18. A healthy parade in Kawakawa P/S lasts for 40minutes and ends at 8:30am. At what time does it start**?**

19. How many half litres of bottles of water can be obtained from a 20litre jerry can**?**

20. Six men can dig a pit latrine in 8 days. How many more men are needed to dig the same pit latrine in 3days**?**

SECTION B (60MARKS)

21. The Venn diagram below shows the number of pupils with red pens and pencils. Study it and use it to answer the following questions. Given that 3x-14 had red pens.



a). Find the value of x. (3mks)

b). How many pupils had pencils**?** (2mks)

22.a)Simplify: $\frac{0.81 \text{ x } 0.24}{0.18 \text{ x } 0.27}$ (3mks)

b). $\frac{1}{3} \text{ x } \frac{1}{2} \div \frac{1}{4}$ (2mks)

23.a). Muskogee went to the market and bought the following items shown in the table below. Complete the table below. (4mks)

Item	**QTY**	**Unit price**	**Total cost**
Milk	3litres	Shs1,500 per lire	_____
Sugar	2kg	_____ per kg	Shs8,000
Bread	_____	Shs4,500 per loaf	Shs9,000
Tea leaves	$\frac{1}{2}$ kg	Shs3,000 per kg	_____
TOTAL			

b). If he was given change of Shs2,000, how much money did he have at the beginning**?** (1mk)

24.a). The digits 5, 0 and 9 are used to form a 3 digit numerals. Write all the 3 digit numbers that can be formed. (2mks)

b). Find the range of the numerals formed. (2mks)

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25.a). A motorist travelled from town A to town B at 40km/hr for $1\frac{1}{2}$ hrs. He rested for 30 min and continued to town C at 40km/hr. for 3hrs. He returned to town A from C at a steady speed of 60km/hr. How far is town C from town A**?** (4mks)

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

26. A tank was $\frac{5}{7}$ full. When 220 litres were drawn from it, the tank remained $\frac{2}{5}$ full. Find the full capacity of the tank in litres. (4mks)

27.a). In a mathematics test given to P.7 class, the marks, frequency and total marks as shown below. Complete the table. (4mks)

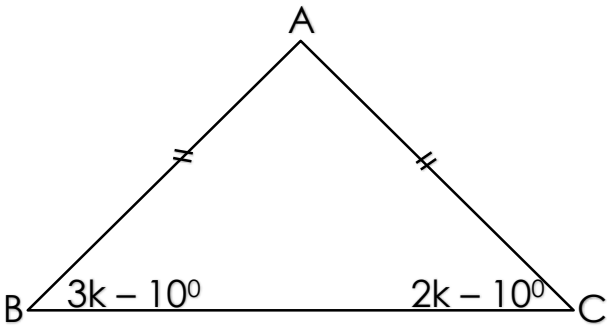
Marks	Frequency	Total Marks
8	6	_____
5	_____	45
_____	15	90
7	8	_____
9	_____	45

b). How many pupils did the test**?** (1mks)

c). What was the modal mark**?** (1mk)

28. a). A mother is 39 years old. Her daughter is 15 years old. After how many years will the mother be twice the daughters age**?** (4mks)

29.a). The figure below shows an isosceles triangle ABC. Use it to answer the following questions. Find the value of k. (3mks)



b). Find the size of angle BAC (2mks)

30.The sum of four consecutive odd numbers is 96. If the largest number is k, find the numbers. (5mks)

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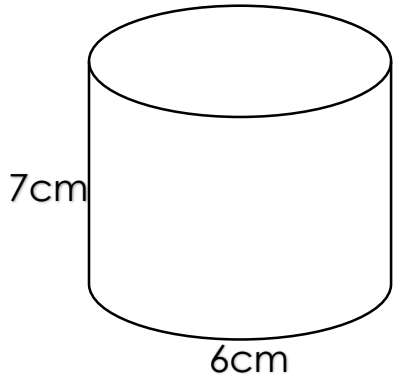
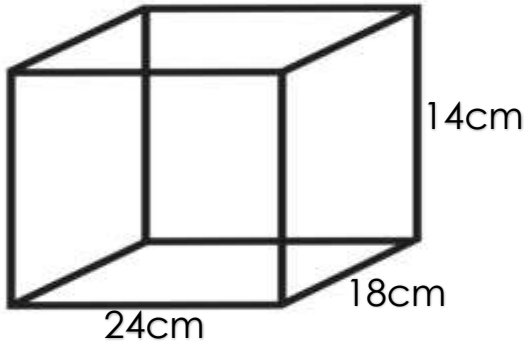
31.a). In a paint factory, cylindrical paint tins of diameter 6cm and height 7cm are packed in the box measuring 24cm by 18cm and height 14cm as illustrated below. Find the maximum number of cylindrical tins. (2mks)





b). Calculate the amount of space that will be left empty after packing the maximum number of cylindrical tins. (3mks)

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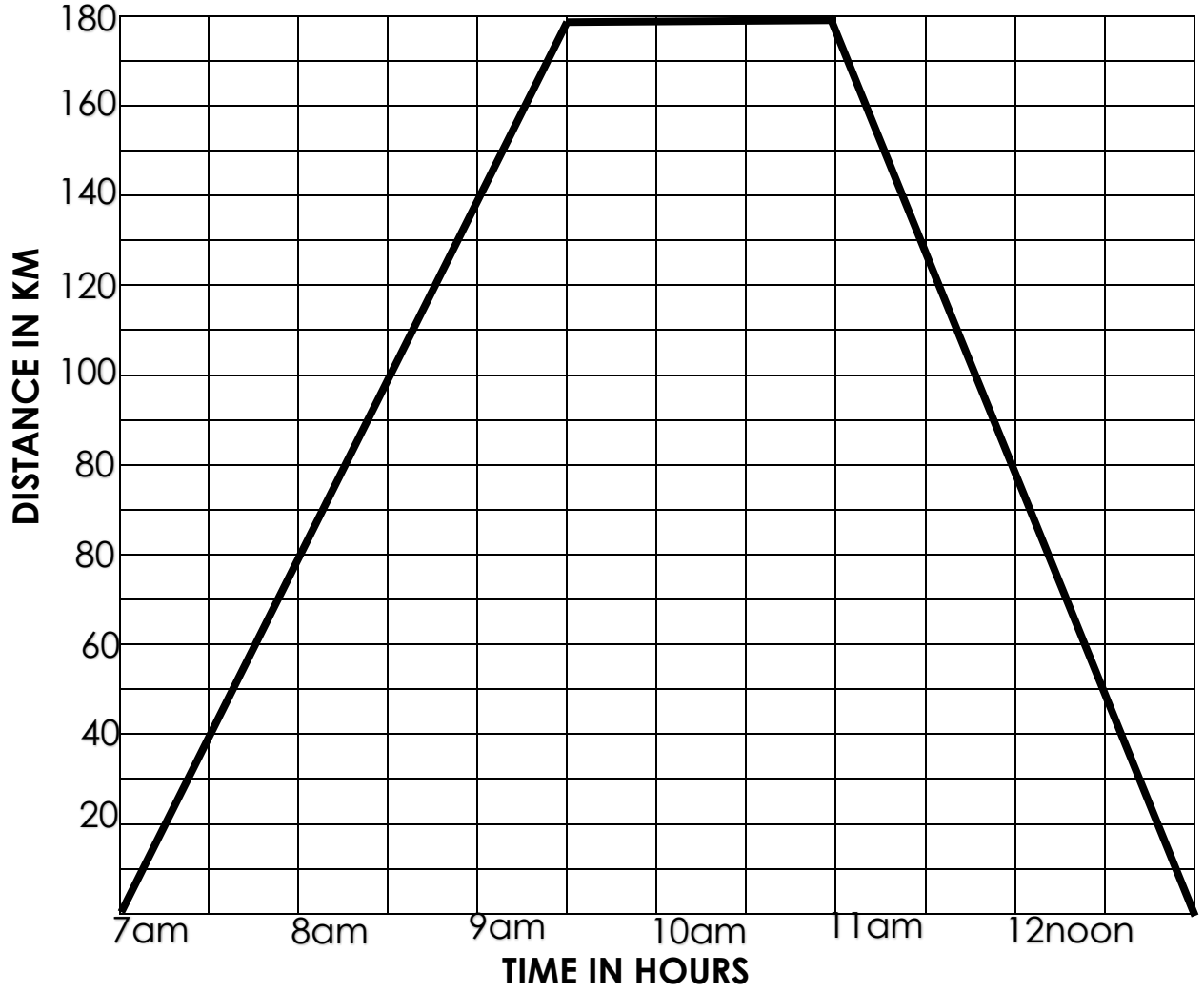
32. A lorry travelled from town A to town B and then returned to town A. The graph below shows the lorry's journey. Study it and use it to answer the following questions.



a)How far is town B from town A**?** (1mk)

b). How long did the lorry take to travel from town A to town B**?** (1mk)

c). How long did the lorry rest at town B**?** (1mk)

d). What was the average speed of the lorry for the whole journey**?** (3mks)

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