# KOLFRAM EDUCATIONAL SERVICES KAMPALA

## MIDTERM II EXAMINATION
## 2023

PRIMARY SIX

## MATHEMATICS

Time allowed: **2** hours **30** minutes

| **Index Number:** | **Random Number** | | | | | | **Personal Number** | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

**Candidate's Name:** _____

**Candidate's Signature:**_____

**School Name:** _____

**District Name:** _____

**DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO**

**Read and follow these instructions carefully:**

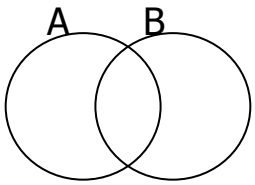
1. This paper has **two** sections: **A** and **B**. Section A has **20** questions and section B has **12** questions. The paper has **7** printed pages.
2. Answer all questions. **All** answers to both sections **A** and **B** must be shown in the spaces provided.
3. All answers must be written using a **blue** or **black** ball point pen or ink. Any answer written in pencils other than on 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. NUMBER | MARKS | EXAMINER'S INITIAL |
| 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)

1. Work out: 63 + 76

2. Shade the region A - B

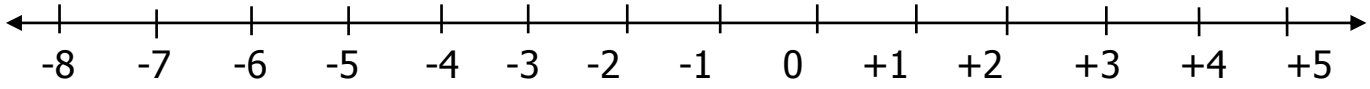



3. Write in words: 20375

4. Simplify: $\frac{5}{12} + \frac{1}{12}$

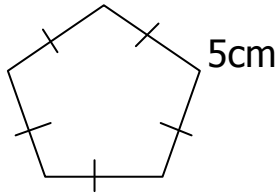
5. A dice was tossed once. Find the probability of an even number showing on top.

6. Use a numberline to work out: $^{-}3 + {}^{-}4$




7. What is the next number in the sequence:
1, 4, 9, 16, _____

8. Find the perimeter of;



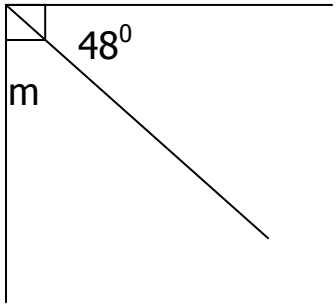

9. Divide 1515 by 5

10. A goat was bought at Sh. 20000. It was sold at a profit of Sh. 4000. What was the selling price?

11. The President arrived at Entebbe at 8.50a.m. and left for Tanzania at 11:15a.m. For how long did the President stay at Entebbe?

12. Find the LCM of 8 and 9.

13. Find the value of angle marked m.




14. Express 4½ kg as grams.

15. Find the median of 3, 0, 7, 6, 11, 12

16. One book costs Sh. 650. Find the cost of 5 similar books.

17. Work out: 3 + 4 = _____ (Mod 5)

18. Use a ruler, pencil and a pair of compasses only to construct an angle of $60^0$.

19. Solve: $3x - 5 = 10$

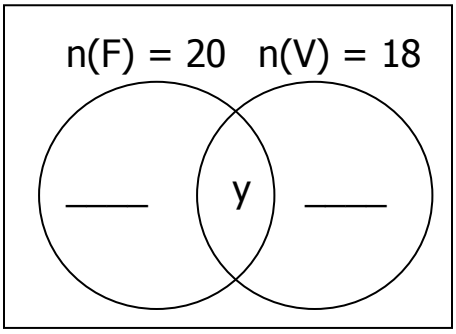
20. Work out: $4 - 8 + 5$

## SECTION B: (60 Marks)

21. In a group of 30 pupils, 20 pupils like football (F), 18 pupils like Volley ball (V) while y pupils like both games.

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

$n(\xi) = 30$




(b) How many pupils like both games? (2 marks)

(c) Find the number of pupils who like only one type of game. (2marks)

22. Moses went shopping with Sh. 50000 and bought the following items:

2 ½ kg of sugar at Sh. 3000 per kg
3kg of meat at Sh. 8000 per kg
3 bars of soap at Sh. 7500
500gms of salt at Sh. 1000 per kg

(a) Calculate the total expenditure. (4 marks)

(b) Find his balance. (2 marks)

23. The table below shows Muliisa's mark in End of month examinations.

| Subject | Eng | Mtc | Scie | SST | R.E |
|---|---|---|---|---|---|
| Marks | 60 | 75 | 60 | 65 | 70 |

(a) Find the range. (1 mark)

(b) Find the modal mark. (1 mark)

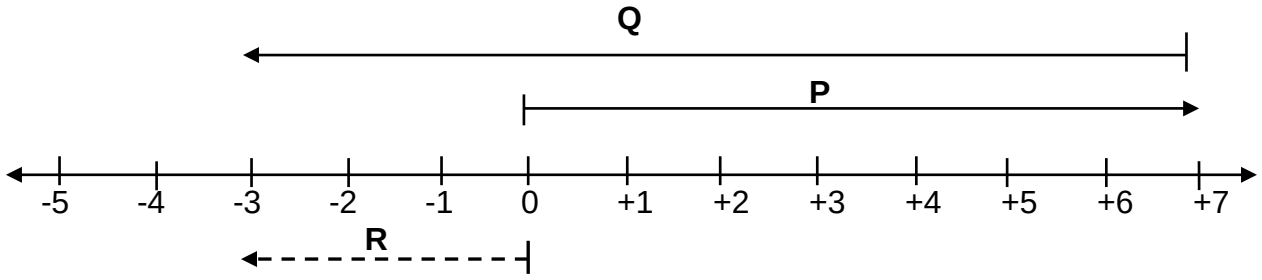
(c) What is the median mark? (1 mark)

(d) Calculate the mean mark. (2 marks)

24(a) Using a ruler and a pair of compasses only, construct an equilateral triangle PQR in a circle of radius 4cm. (3 marks)

(b) Measure the length of line QR. (1mark)

25. Study the number line below and answer questions that follow.




(a) What integers have been represented by; (1 marks @)

(i) P _____

(ii) Q _____

(iii) R _____

(b) Write down the mathematical statement shown above. (1 mark)

26. Given the digits 3, 1, 7, 6 and 4.

(a) Form the smallest number using the digits. (1 mark)

(b) Form the biggest number using the digits. (1 mark)

(c) Find the difference between the biggest and smallest numbers formed. (2 marks)

27. Given that a = 4, b = 3, c = 2

(a) Calculate the values of:

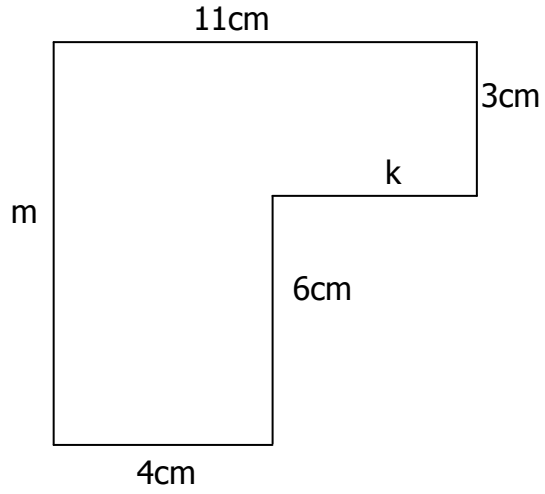
(i) $\frac{a\ b}{c}$

(ii) 2a + 3c

(b) Solve: 3p + 5 = 20

(2 marks @)

28. Study the figure below and answer the questions that follow.




(a) Find the value of; (1mark@)

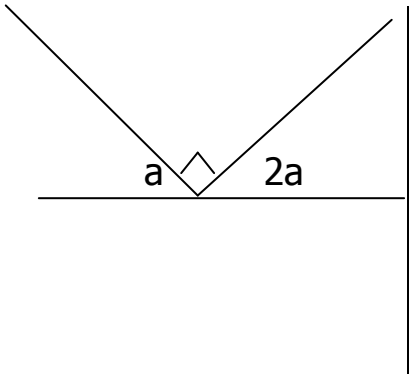
(i) k

(ii) m

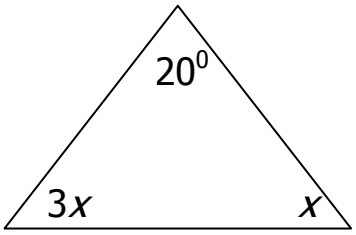
(b) Calculate the area of the figure above. (3 marks)

29 Calculate the values of the unknown angles. (2 marks @)

(a)




(b)



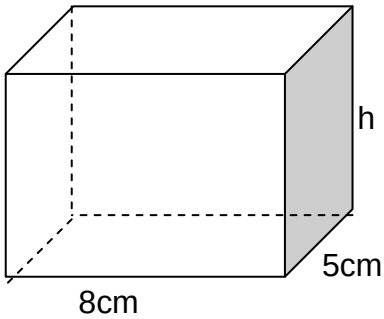

30. At Hafiswa's birthday party 100 guests were invited. 3/5 of the invited guests were females and the rest were males.

(a) Find the number of female guests invited. (2 marks)

(b) How many more females than males were invited? (2 marks)

(c) What fraction of the guests was for males? (2 marks)

31. Study the figure below and use it to answer the questions that follow.



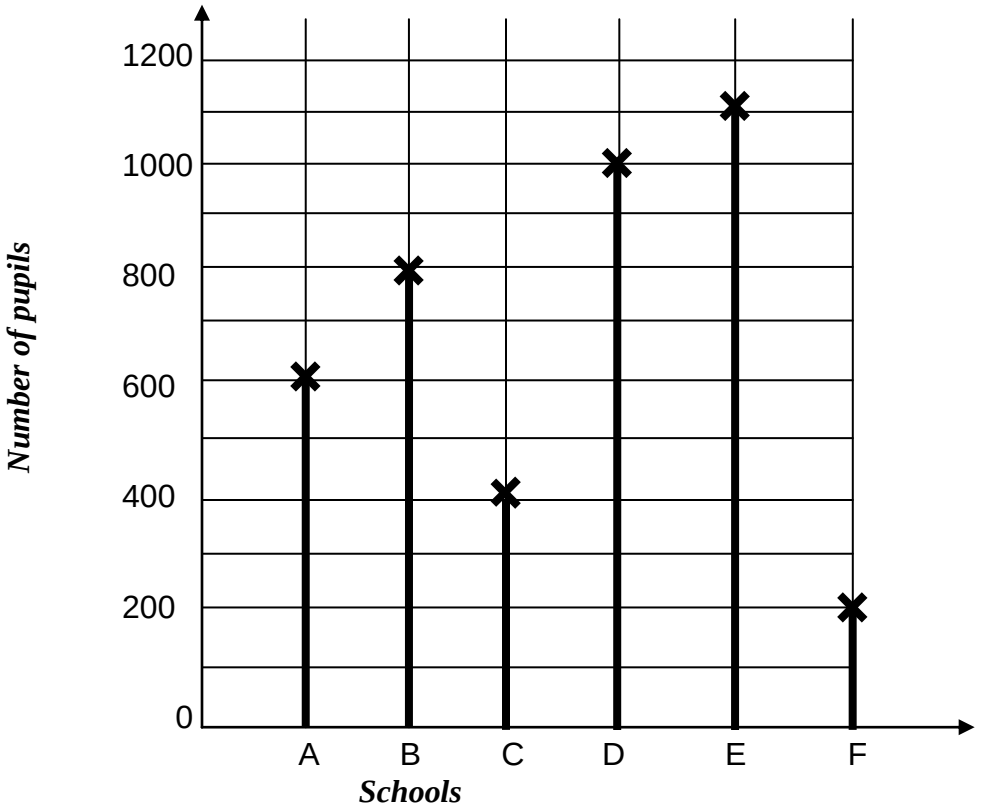

The area of the shaded face is $20cm^2$.

(a) Find the value of h. (2 marks)

(b) Calculate the volume of the figure. (2 marks)

(c) Find the total surface area of the figure. (2 marks)

**32. The graph represents the number of pupils in different schools. Study it and answer the questions that follow.**




(a) How many pupils are there in school A? (1 mark)

(b) How many pupils are there in school C? (1 mark)

(c) How many pupils are there in school E? (1 mark)

(d) How many pupils are there in the first three schools A, B, C? (1 mark)

***Good Luck***