



THE REPUBLIC OF UGANDA

KIBAALE DISTRICT ACADEMIC BOARD

PRIMARY LEAVING MOCK EXAMINATION, 2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random Number	Personal Number

Candidate's Name:.....

Candidate's Signature.....

School Name:.....

District ID:.....

Read the following instructions carefully:

1. This paper is made up of **two Sections: A and B**.
2. Section **A**, has **20 short-answer questions (40 marks)** and Section **B** has **12 questions (60 marks)**
3. **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 fountain pen. Only diagrams should be done in pencil.
5. No calculators are allowed in the examination room.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the boxes indicated "**For examiners' use only**"

FOR EXAMINER'S USE ONLY		
Qn. No.	Marks	Exrs' 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)

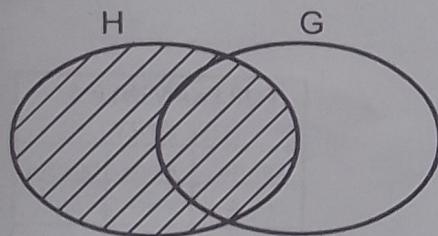
Answer all questions in section A. Each question carries 2 marks.

1. Work out:

$$\begin{array}{r} 2 \quad 2 \\ \times \quad 3 \\ \hline \end{array}$$

2. Find the value of 7 if its place value in a number is thousands.

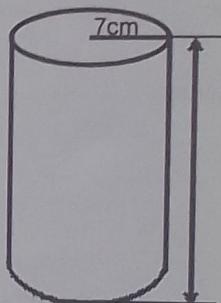
3. Describe the shaded region in the venn diagram.



4. Simplify: $-2 + -3 =$

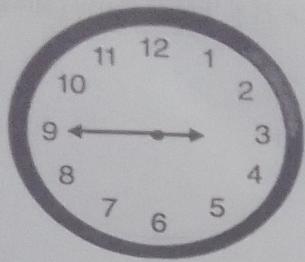
5. A pupil slept at 8:16p.m and woke up at 6:30a.m. Find how long was the pupil asleep?

6. The capacity of the tank below is 10.8 litres of water. Find the capacity of the tank in mililitres?



7. Work out: $53 - 13 \div 5 =$

8. Write down the time shown on the clock face below.



9. The temperature on a top of mountain Rwenzori in the morning is -11°C , at midday the temperature rose to 8°C . Calculate the temperature range.

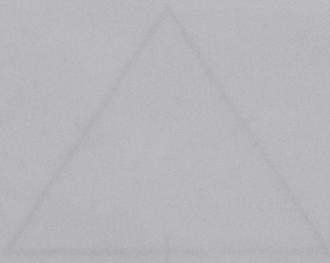
10. Prime factorise 36.

11. Write the number represented by the tallies below.

||||| ||||| ||||| ||

12. Find the value of p in a three digit number $31p$ which is divisible by 6.

13. Using a ruler, a pencil and a pair of compasses only.
Construct angle of 135° .

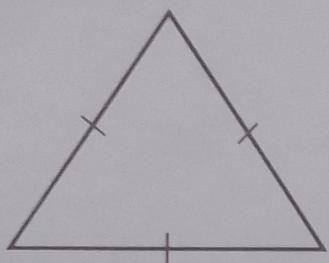


14. Simplify:
 $6p + n + 5p - 3n$

15. Write 409 in Roman numerals.

16. In a P.7 classs of a certain school there are of 40 candidates. The probability of picking a candidate to get a mathematics textbook is $\frac{2}{5}$. How many candidates do not get a mathematics text books?

17. Find the number of lines of folding symmetry in the figure.



18. The mass of a packet of biscuits is 1.5kg. Find the mass of the packet of biscuits in grammes.

19. 28% of the farmers produce maize. The rest of the produce is millet. If there are 7200kg of millet, how much produce do the farmers have altogether?

20. Change 22_{ten} to base three.

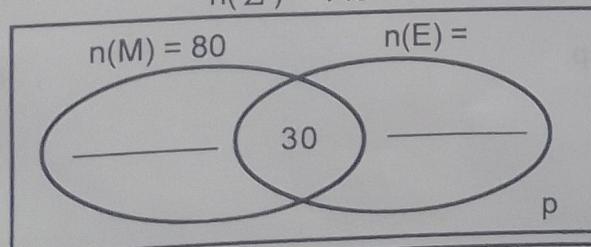
SECTION B: (60 Marks)

21. (a) 7 men can build a house in 9 days, how many more men can build the same house working at the same rate in 3 days. (3marks)

(b) Simplify: $12\frac{1}{2}\%$ of sh.8000. (2marks)

22. (a) In a P.7 class of a certain school, there are 140 candidates, 80 candidates like Mathematics, the number of candidates who like English is twice those who like none of the two subjects and 'p' candidates like neither subjects. Use the information to complete the venn diagram below. (2mark)

$$n(\Sigma) = 140$$



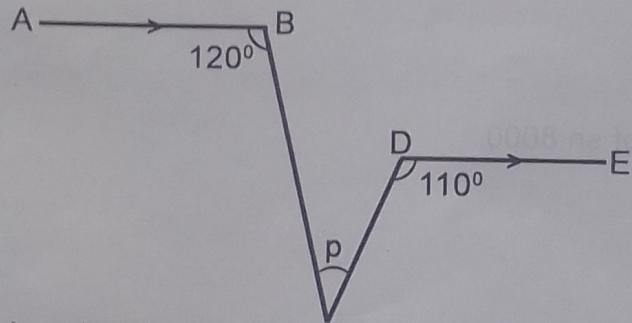
(b) Find the value of p.

(2marks)

(c) Calculate the number of candidates who like English only.

(2marks)

23. In the diagram below, AB is parallel to DE. Study it and answer the questions below



(a) Find angle p in degrees.

(4marks)

(b) Name the special angle p.

(1mark)

24.(a) Simplify: $\frac{0.3 - 0.06}{0.7 + 0.5}$

(3marks)

(b) Reduce 4800kg in the ratio of 2:3.

(2marks)

25. Using a ruler, a pencil and a pair of compasses only, construct a kite PQRT in which diagonal PR = 7cm. Diagonal QT bisects PR at O such that QO = 4cm and TO = 6cm. (5marks)

26. Trust Africa Bank bought and sold foreign currencies in Uganda shillings (Ug shs) on a certain day as shown in table below. Study the table and use it to answer the questions below.

Currency	Buying in (Ug sh)	Selling in (Ug sh)
1 US dollar	3900	3950
1 Rwandese Franc	5	9
1 British Pounding (£)	4800	4700

- (a) A tourist had £220 and exchanged them in Uganda shillings.
Find the amount of money in Uganda shillings the tourist got. **(2marks)**
- (b) A tourist came with more 100US dollars and 500 Rwandese Franc.
How much money in Uganda shillings did the tourist have? **(3marks)**

27. The table below shows the mass of different pupils measured in a P.7 class. Use it to answer questions below.

Mass in kg	35	45	50	66
Number of pupils	8	4	3	55

(a) How many pupils were measured? (1mark)

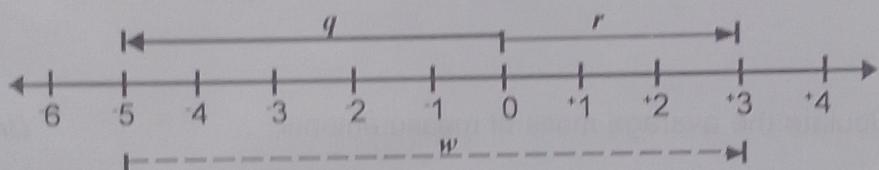
(b) Find the median mass in kg. (2marks)

(c) Calculate the average mass of measurements. (3marks)

28.(a) Work out: $3 - 5 = \underline{\hspace{2cm}}$ (finite 7) (2marks)

- (b) Today is Monday, calculate the day of the week that will be 49 days from now. (2marks)

29. Study the numberline below carefully and use it to answer the questions that follow. (a)



- (a) Name the integers indicated by the arrows. (1mark each)

$q =$ _____

$r =$ _____

$w =$ _____

- (b) Write the mathematical statement for the numberline. (1mark)

30. A car left town Q at 8:30am to town P 240km away moving at a speed of 60km/hr. It then returned to town Q at a speed of 30km/hr.

- (a) Work out the time at which the car reached town P. (2marks)

(b) Calculate the average speed of the driver for the whole journey back home to town Q. (3marks)

(3marks)

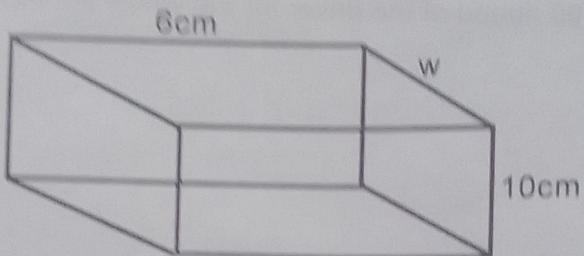
31. (a) Solve for y.

$$7(3y - 1) - 4(y - 1) = 31.$$

(b) The mother is 20 years older than the son now. In 15 years time a mother will be twice as old as the son. How old is the mother in 15 years time if the son is 5 years old now? (3marks)

32.

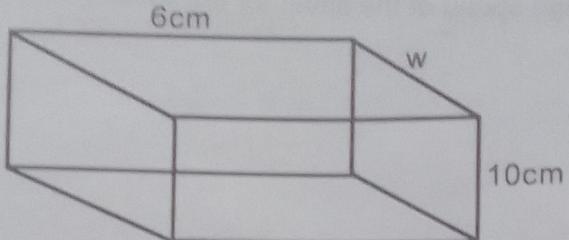
Study the figure and answer the questions below.



- (a) The base area of the figure above is 30cm^2 . Calculate its width. (2marks)
- (b) Work out its volume. (2marks)

END*

32. Study the figure and answer the questions below.



- (a) The base area of the figure above is 30cm^2 . Calculate its width. (2marks)
- (b) Work out its volume. (2marks)

END*

8. The Uganda National population and Housing census programme started today on Tuesday 30th April, 2024 and lasted for 20 days. On which day did the programme end ? (2)
9. Find the next number in the sequence.
29, 27, 24, 19, 12, _____ (2)
10. After covering $\frac{1}{4}$ of his journey. Kennedy still had 45 km to cover. How long was his journey?