



VICTORY STEP EDUCATION SERVICES
PRIMARY SEVEN SET ONE EXAMINATION

2023

MATHEMATICS

Time Allowed: 2 hours 15 minutes

Random No:						Personal No:		

Candidate's Name:

Candidate's signature:

District ID No:

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School Name:

Read the following instructions carefully :

1. Do not forget to write your **school** or **district** on the paper
2. This paper has two sections: **A** and **B**.
Section **A** has **20** questions and section **B** has **12** questions.
3. Answer **all** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
4. All answers must be written using a **blue** Or **black** ball point pen or ink. Any work Written in pencil will not be marked.
5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
6. Do not fill anything in the table indicated
"FOR EXAMINER'S USE ONLY"

FOR EXAMINER'S 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		

1. Work out: $\frac{1}{4} \div \frac{1}{2}$

2. Round off 9. 46 to the nearest tenth.

3. Write XL in Roman numerals.

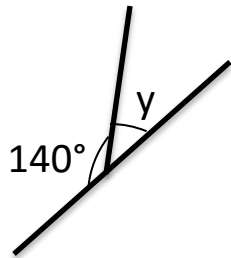
4. Simplify: $2x + y + 3x + 3y + x$

5. Find the sum of the value of 3 and 5 in the number 3.456.

6. A trader bought items for Sh.560,500 and sold them at Sh.549,000.Find the loss a trader made after selling the items.
7. Solome used 300cm of cloth to make masks to prevent the spread of COVID. Change 300cm of the cloth he used to metres.
8. Work out: $- 8 + 3$
9. If I toss a dice , what is the probability of getting a composite number?
10. A science test was given to a class of 100 pupils and 90 pupils of them Passed the test. What percentage of the class failed the test?

11. Work out the median for 3 , 7 , 2 , 0 , 1 , 9

12. Find the size of the exterior angle marked y .



13. Find the radius of a circle whose circumference is 121cm. (Use $\pi=22/7$)

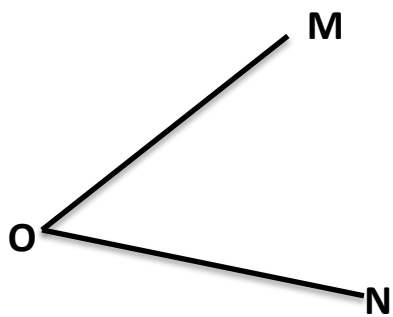
14. Find the next number in the sequence:

1 , 4 , 9 , 16 , 25 , 36 , ,

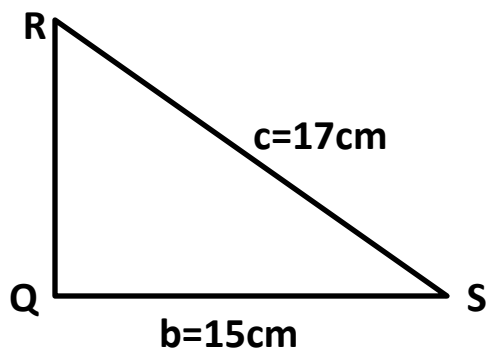
15. Bangi was facing North. She turned clockwise to face South East. What angle did she make?

16. Calculate the speed of a motorist who covered a distance of 210 kilometers in $2\frac{1}{2}$ hours.

17. Use a protractor to measure angle MON below.



18. In the right angled triangle shown below, $b=15\text{cm}$, $c =17\text{cm}$. How long is **a**?



19. If $M = \{\text{all triangular numbers from 1 to 10}\}$, $V =\{\text{ all even numbers from 0 to 10}\}$.Find **$n(\mathbf{M}\cap\mathbf{V})$**

20. Write 650,019 in words.

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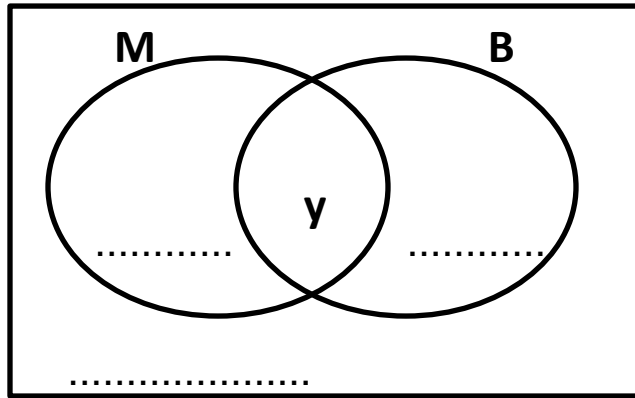
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SECTION B: 60 MARKS

Answer all questions in this section.

21. In a village of 49 farmers , 20 grow millet(**M**) , 25 grow beans(**B**) and y grow both millet and beans. 3y farmers grow neither of the two foods. Use the above information to complete the venn diagram. **(03marks)**

$$n(\mathcal{E})=49$$



- b) Find the value of y .

(02mks)

- c) How many farmers grow neither millet nor beans?

(01mark)

22.a) Construct a triangle **ABC** in which angle **A** = 60° , angle **B** = 90° . Bisect angle **B** and let the bisector meet **AC** at **P**. Drop a perpendicular from **P** and let it meet **AB** at **X**. **(03marks)**

b) Find the area of angle **ABP**.

(02marks)

23. A teacher recorded marks of P.6 in science test as shown in the table below.

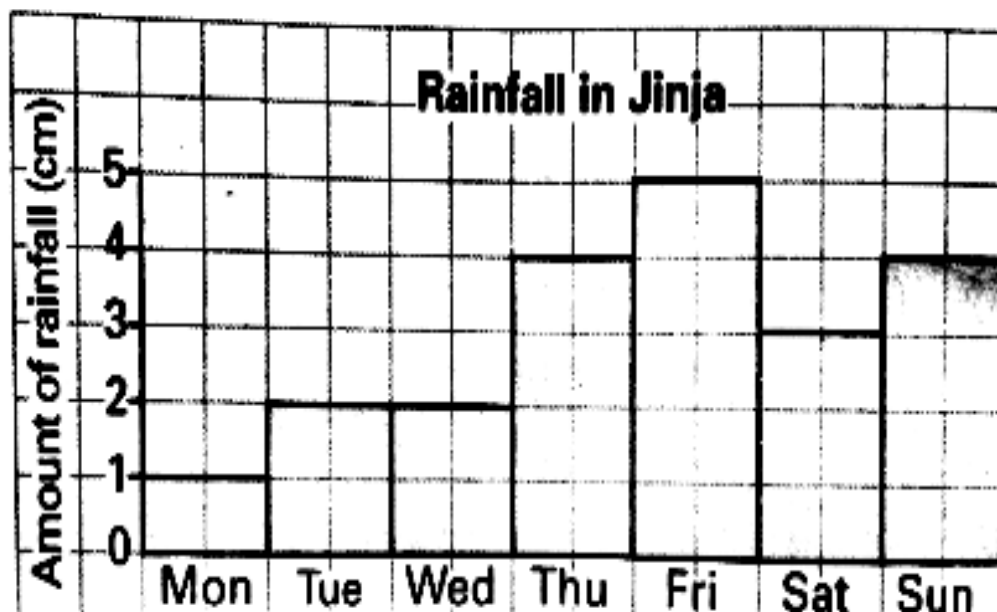
Marks	72	85	95	96	90
No. of Children	12	4	1	4	5

a) Find the range of the marks.

b) What is the modal mark?

c) Work out the mean mark of the pupils who scored above 72.

24. The bar graph below shows the rain falling each day during a rainy week in Jinja.



a) How much rain fell in the week?

b) Which was the wettest day in the week?

c) What was the difference between the highest and the lowest rainfall?

25. A man arrives at Kampala at 10:40 pm and leaves at 1: 03 am to travel to Nairobi. He is due into Nairobi at 5:00am the following day. Unfortunately He delayed and arrives at 8:30 am .

a) How late is the man in arriving at Nairobi? 02marks.

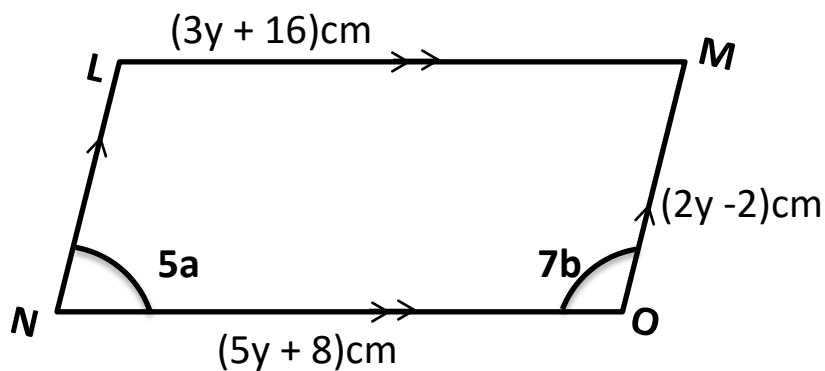
b) For how long does the man have to wait in Kampala?

c) At what time does the man leave Kampala on the 24 – hour clock?

26.a) Given that $\mathbf{a}^2 = 10$, $\mathbf{b}^2 = 4$. What is \mathbf{c}^2 ?

b) Find the value of \mathbf{X} in the equation: $\frac{X - 6}{4} = 12$

27. Use the figure below to answer the questions that follow.



a) Find the value of **a**.

b) Find the value of angle **MLN**.

c) Work out the value of **y**.

28. In a district of Oyam, during a health survey , the health survey team registered 4,000 children for certain food deficiencies. Out of these 30% were girls below 15 years and 25% were boys below 15 years of age. If there were 100 girls who were above 15 years of age.

- a) Find the number of girls in Oyam district the health survey team recorded.
- b) Find the number of boys the health survey team recorded in Oyam.
- c) How many children were found with Scurvy if all of the boys below 5years of age were checked?

29. To make a school uniform my mother has to buy the following.

3metres of cloth costing 8,000 per metre

A zip costing Sh. 500

A card of buttons costing Sh.3000

A reel of thread costing Sh. 5000

a) How much will the uniform cost to make it?

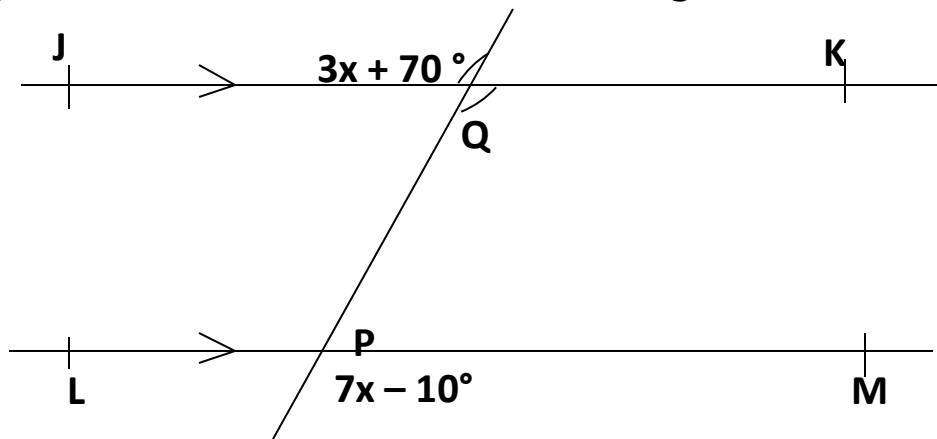
b) How much change will she have from Sh.65500.

30. Opolot wrote three digit numbers using 1 , 4 and 9

a) Write down all the three possible digits greater than 400 that Opolot wrote

b) What was the probability of Opolot writing an Odd number?

31.a) Find the value of x in the following.



b) Find the size of angle **AQP**.

32.a) Three men **A**, **B** and **C** contributed money for a business in the ratio of 3 : 5 : 7 respectively. If **A** gave in Sh. 36,000 less than **C**. How much Did B contribute?

b) How much more money did **C** contribute more than **A** ?