

SMART STAR EXAMINATIONS BOARD
BEGINNING OF TERM I EXAMINATION – 2024
PRIMARY SIX
MATHEMATICS

Time allowed : 2 hours 30 minutes

Pupil`s Name

School Name.....

District Name.....

Read the following instructions carefully;

1. This paper has **two** sections: **A** and **B**.
Section **A** has **20** questions and Section **B** has **12** questions.
2. All the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a **blue** or **black** ball-point pen or fountain pen. Any work done in pencil other than graphs, pictures and diagrams will **not** be marked.
4. **No calculators** are allowed in the examination room.
5. Unnecessary changes of work may lead to **loss** of marks.
6. Any handwriting that cannot easily be read may lead to **loss of marks**.
7. Do **not** fill anything in the boxes indicated: **“FOR EXAMINERS’ USE ONLY”** and boxes inside the question paper.

FOR EXAMINERS’ USE ONLY

QN. NO.	MARK	EXR`S NO.
1 - 10		
11 - 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. Workout: $43 + 12$

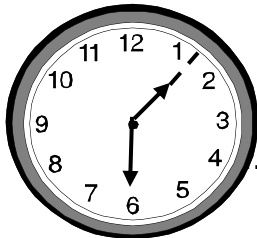
2. Write 4,369 in words.

.....

3. Find the smallest number that can be divided by either 12 or 18 without leaving any remainder.

4. Given that  represents 10 tins. How many tins are represented by ? 

5. What morning time is shown on the clock face below?



6. What is $\frac{2}{3}$ of 12 books?

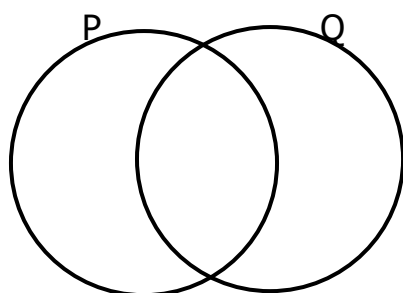
7. Using a ruler, a pencil and a pair of compasses only, construct an angle of 60°

8. Find the area of the figure below.



9. Solve: $3y - 1 = 11$.

10. In the Venn diagram below, shade Q-P



11. Find the **sum** of the next number in the sequence.

1, 3, 6, 10, _____, _____

12. A taxi carries 14 passengers per trip. How many passengers does it carry in 5 trips?

13. The cost of a book is sh.2000. Find the cost of 3 similar books.

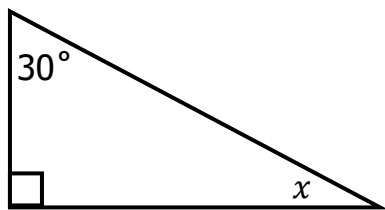
14. Express $4\frac{2}{3}$ as an improper fraction.

15. Draw tallies to represent 32.

16. Work out: $-5 - -9$

17. Annet took $3\frac{1}{2}$ hours to do her dormitory chores. How many minutes did she take doing her chores?

18. Find the size of angle x in the triangle below



19. Simplify: $2y + 3p + y - p$

20. Workout.

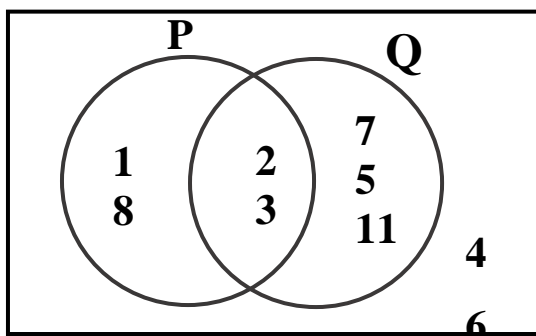
Km	m
5	5 0 0
-2	7 0 0
<hr/>	
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SECTION B (60MARKS)

Answer **all** questions in this section

Marks for each question are indicated in brackets

21. The Venn diagram shows the elements of set P and set Q. Use it to answer the questions that follow.



a) Find the number of subsets in $(P \cap Q)$.

(2marks)

b) Find $n(P \cap Q)$ /

(2 marks)

c) List the members of set Q. **(1mark)**

22. A bus left Kampala at 8:00a.m. and reached Kasese at 11:00a.m.

a) How long did it take travelling?

(2marks)

b) If Kampala is 240km away from Kasese. Calculate the bus' speed in km/h.
(2marks)

23. Paul went shopping and bought the following items.

2 fountain pens at sh.1500 each.

3 books at sh.2000 each.

2 rulers at sh.1000 each.

A geometry set for shs.5000

a) Find his total expenditure.

(4marks)

b) If he was given a change of sh. 1200. How much money did he go with?(**1mark**)

24. Given the digits 2, 4, 1, 2

a) Form the smallest 4-digit number using the digits above? (1 mark)

b) Write the largest 4-digit number formed in words. (**2marks**)

c) Find the sum of the smallest and largest 4 digit numbers formed. (**2marks**)

25a). Change 103_{five} to a decimal base. (**2marks**)

b) Given that $41_k = 21_{ten}$ find the value of k (**3marks**)

26a) In a school of 1200 pupils, $\frac{3}{4}$ of them are girls and the rest are boys. How many more girls are there than boys?
(3marks)

b) Work out: $\frac{2}{4} - \frac{1}{5}$ **(2 marks)**

27a) Using a ruler, a pencil and a pair of compasses only, construct a rectangle ABCD where AB=**8cm** and BC=**6cm**
(4marks)

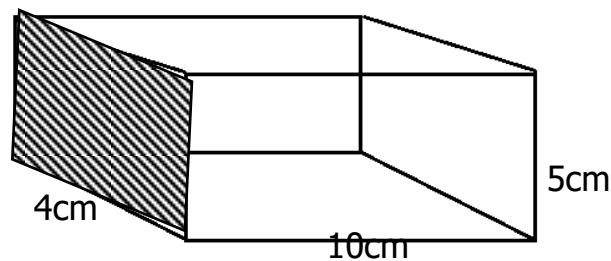
b) Measure the length of diagonal BD=.....cm
(1mark)

28.) Given that $a = 6$, $b = 5$ and $c = 4$.

a) Find the value of $2a + bc$
(2marks)

b) Sarah is twice as old as Alex. If their total age is 36 years, how old is Alex?
(3marks)

29. Use the prism below to answer the questions that follow.

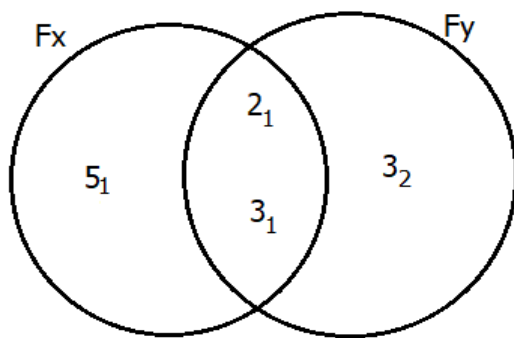


a) How many edges does the figure above have? **(1mark)**

b) Calculate the area of the shaded part. **(2marks)**

c) Find the volume of the prism **(3marks)**

30. Use the Venn diagram below to answer the questions that follow.

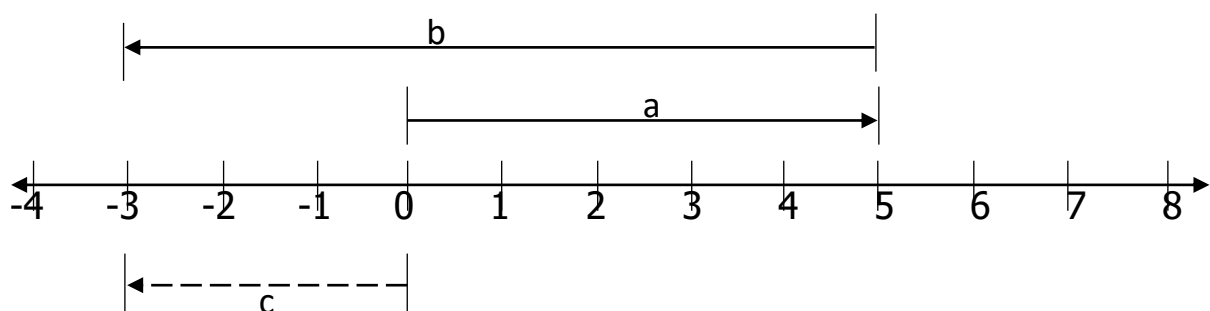


a) Find the value of y **(1mark)**

b) Find the value of x **(1mark)**

c) Find the LCM of x and y **(2marks)**

31. Use the number line below to answer the questions that follow



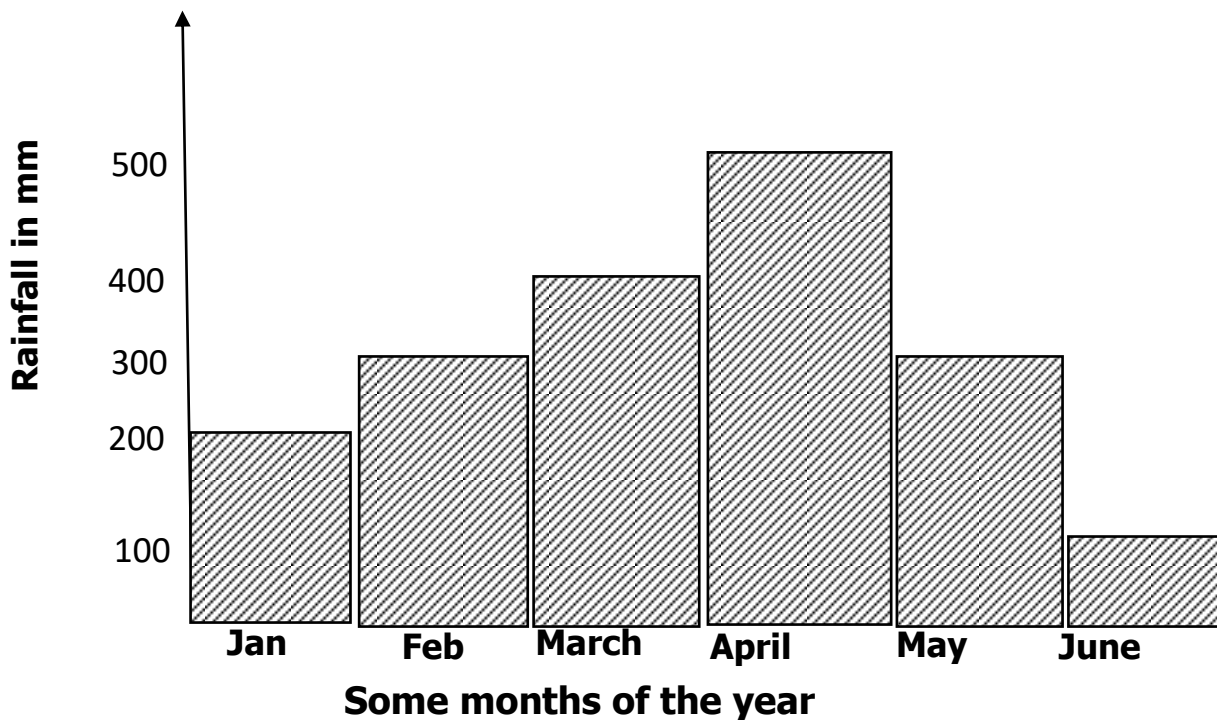
a) Identify the integer represented by the arrows: **(3marks)**

$a = \dots\dots\dots$ $b = \dots\dots\dots$ $c = \dots\dots\dots$

b) Write down the mathematical statement shown on the above number line.
(2marks)

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32. The graph below shows the amount of rainfall received in the last six months of the year 2023. Study and use it to answer the questions that follow.



a) How much rainfall was received in January? (1mark)

b) Which two months received the same amount of rainfall? (1mark)

.....

c) Calculate the **average** amount of rainfall received in that period? (3marks)

END

Revision tip

✓ Recite multiplication tables