

**OUTREACH SCHOOLS EXAMINATIONS BOARD**

**BEGINNING OF TERM 1 EXAMINATION – 2024**

**PRIMARY SIX**

**MATHEMATICS**

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

**Pupil`s Name …………………………………………………….………………………………………..**

**School Name………………………………………………...........……………………………………...**

**District Name………………………………………………………………………………………………**

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| --- | --- | --- |
| **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** |  |  |

**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.

1. All the working for both sections **A** and **B** must be shown in the spaces provided.
2. 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.

1. **No calculators** are allowed in the examination room.
2. Unnecessary changes of work may lead to **loss** of marks.
3. Any handwriting that cannot easily be read may lead to **loss of marks.**
4. Do **not** fill anything in the boxes indicated:

**“FOR EXAMINERS’ USE ONLY” and** boxes inside the question paper.

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### 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 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.

**9cm**

**6cm**

9. Solve: 3y 1 = 11.

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

P

Q

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 as an improper fraction.

15. Draw tallies to represent 32.

16.Work out: **⁻5 - - 9**

17. Annet took 3hours to do her dormitory chores. How many minutes did she take doing her chores?

18. Find the size of angle in the triangle below

30˚

19. Simplify:

20. Workout. Km m

5 5 0 0

-2 7 00

***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.

**Q**

**P**

**7**

**5 11**

**1**

**8**

**2**

**3**

**4**

**6**

a) Find the number of subsets in (P ∩ Q). **(2marks)**

b) Find ∩(P∩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*

1. Find his total expenditure. **(4marks)**

1. 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)**

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

25a). Change to a decimal base. **(2marks)**

b) Given that 41k = 21tenfind the value of k **(3marks)**

26a) In a school of 1200 pupils, of them are girls and the rest are boys. How many more girls are there than boys? **(3marks)**

b)Work out: **(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)**

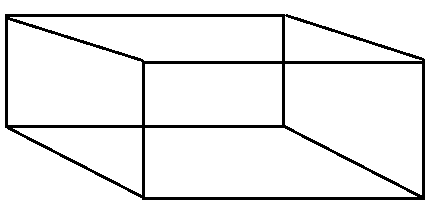
b) Measure the length of diagonal BD=……………………cm **(1mark)**

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 36years, how old is Alex**? (3marks)**

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



5cm

3cm

4cm

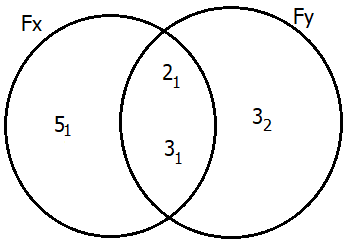
10cm

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 **(1mark)**

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

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

a

b

c

-4 -3 -2 -1 0 1 2 3 4 5 6 7 8

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

a=……………..……….…………… b=………………..…………………… c =…………………….…………………

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

…………………………………………………………………………………………………………………………………………

***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.***

**Rainfall in mm**

500

400

300

200

100

**Jan**

**Feb**

**March**

**April**

**May**

**June**

**Some months of the year**

1. How much rainfall was received in January? **(1mark)**
2. Which two months received the same amount of rainfall?  **(1mark)**

……………………………………………………………………………………………………………………………………

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

END