ASK INTERGRATED TEACHERS' MOCK EXAMINATIONS BURREAU

AITEL JOINT MOCK EXAMINATIONS

Primary Leaving Examinations

MATHEMATICS

Time allowed: 2hours 30 minutes

Index No.

Random No.						Personal No.		

Candidate's name: .....

Candidate's Signature: .....

School Random No. .....

District ID: .....

Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections **A** and **B**. Section **A** has **20 questions** and **section B** has **12 questions** .This paper has **12 pages** printed altogether.
3. Answer **all** questions. 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 ink. Any work done in pencil other than 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 be easily read may lead to loss of marks.
7. Do not fill anything in the table indicated **"For examiners' use only"** and the boxes inside the question paper.

FOR EXAMINERS' 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		

SECTION A: 40 MARKS

Answer **all** *questions in this section*
Question **1** *to* **20** *carry two marks each*

1. Work out: 375 plus 428

2. Express CXCVI as Hind Arabic numerals.

3. Subtract 124_{five} from 413_{five}

4. Find the next two numbers in the sequence below;
   1, 3, 6, 11, 18,___,___

5. Annet ate $\frac{3}{4}$ of the sugarcane and Mary ate $\frac{1}{3}$ of the remainder .

   What fraction did they eat altogether?

6. Without dividing, show that 375 is divisible by 3.

7. Without using a pair of compasses, draw an angle of 120° in the space provided below.

8. Prime factorise 18 and write your answer in superscript form.

9. Given that Q has 15 proper subsets, find n(Q).

10. Add :

	weeks	Days
	5	4
+	2	6

11. Given that  represents 9 carrots.
How many pictures can represent 63 carrots?

12. A parent had a certain number of apples. He shared them among 6 boys but 1 apple remained. When he shared the same number of apples among 4 girls, still 1 apple remained.
Find the least number of apples the parent shared.

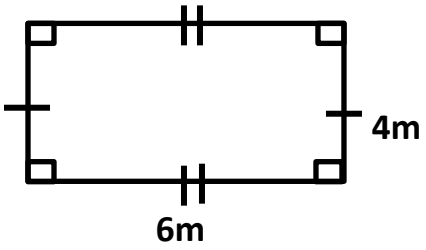
13. A forty minute lesson started at 9:30am.
At what time did the lesson end?

14. By selling a goat at sh.450,000 a trader made a profit of sh.70,000.
At what price did the trader buy the goat?

15. The age of Ben is thrice that of Ali. If Ali is 12 years old. How old is Ben?

16. In the diagram below , un shade $\frac{3}{4}$

17. Kipromo ran round the figure below thrice. Find the total distance he covered



18. Given that a = -3 and b= 4.Find the value of 2b – 2a

19. A driver moved a distance of 180km in $1\frac{1}{2}$ hours.
    At what speed was he moving?

20. Florence bought 12 bars of white star soap.She cut them into quarter small pieces. How many small pieces of soap did she cut from the 12 bars of soap?

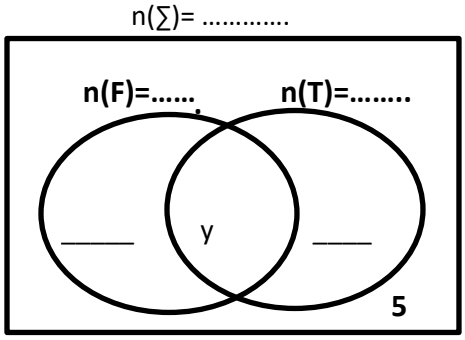
SECTION B: 60 MARKS

Answer **all** *the questions in this section*

Marks for each question are indicated in bracket

21. In a group of players, 32 players like playing Tennis(T), 7 like playing football only, y like playing both games and 5 do not play any of the two games.

a) Complete the venn diagram below. ***(2marks)***



b) If 27 players like playing football, how many players are in the group? ***(3marks)***

c) Find the probability of selecting a player who likes playing netball. ***(1mark)***

22. a) Work out : $42_{five} \times 3$ ***(2marks)***

b) Round off 47 to the nearest tens using a number line. ***(2marks)***

c) Express 43_{five} as a binary base. ***(2marks)***

23. The sum of 3 consecutive even numbers is 24. If the largest number is k. Find the numbers. ***(4marks)***

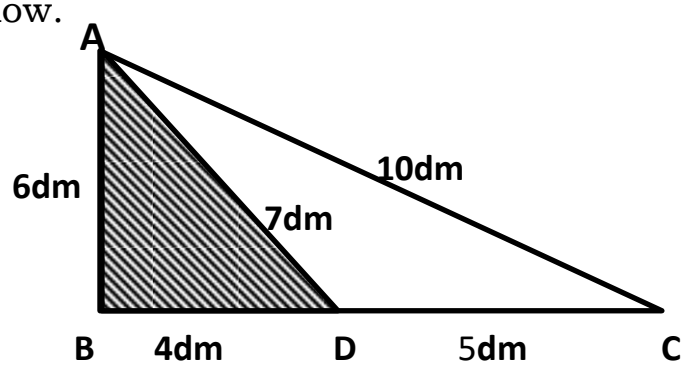
24. In a mathematics test, pupils obtained marks as shown below:

Pupils	Joshua	Joan	Jane	Joseph
Marks	70	30	40	50

a) Work out the median mark. ***(2marks)***

b) Calculate for the mean mark. ***(2marks)***

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

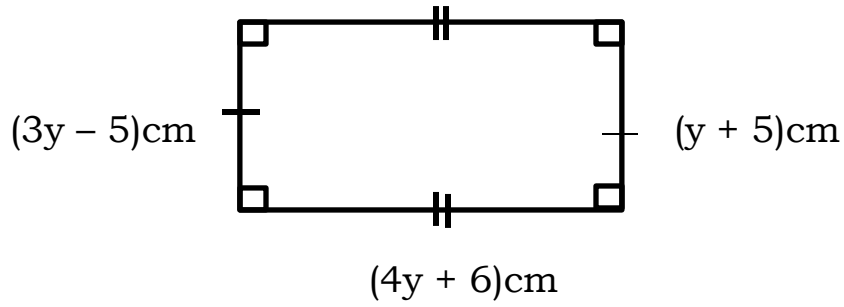


a) Find the area of the un shaded figure. ***(2marks)***

b) Calculate the area of the figure ABC. ***(2marks)***

c) Calculate the total distance of the figure ADC. ***(2marks)***

26. Study the figure below carefully and use it to answer the questions that follow:



Find the area of the above figure. ***(4marks)***

27. In a class, $\frac{3}{4}$ of the pupils are boys and the rest are girls.

a) What fraction is for girls? ***(1mark)***

b) If there are18 girls in the class, how many boys are in the same class?

(3marks)

c) Find the total number of pupils in the whole class. ***(2marks)***

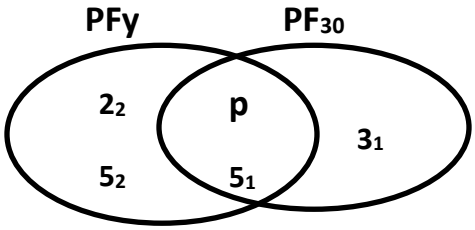
28. Haruna went to the supermarket and bought the following items:

Items	**Quantity**	**Unit cost**	**Total cost**
Rice	2kg	Sh…….	Sh.8,800
Meat	……kg	Sh. 10,000	Sh.5,000
Soap	3 bars of soap	Sh. 7,000	Sh…….
Total expenditure			Sh. ……

a) Complete the above table. (please show your working). ***(4marks)***

b) If Haruna remained with sh.50,000 as his balance. How much money did he have at first? ***(2marks)***

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



a) Find the value of ; ***(1mark each)***

i) p ii) y

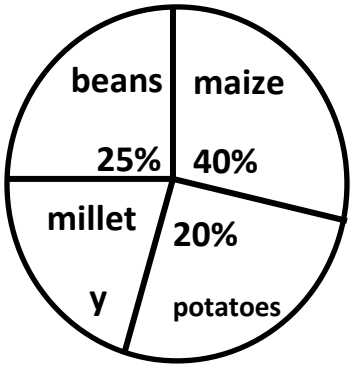
b) Find the LCM of the PF_y and the PF_{30} ***(2marks)***

30. a) Work out; $\frac{3.9 + 3.6}{0.06 \times 0.5}$ ***(3marks)***

b) Reduce $\frac{12}{13}$ to the lowest term. ***(1mark)***

31. The pie chart below shows how Atukunda makes use of his land .
He uses 1200 sq.m for growing potatoes.

a) Find the value of y in percentage



(2marks)

b) Calculate the area of the land. ***(2marks)***

c) Express the land used for growing potatoes as degrees. ***(1mark)***

32. Using a pair of compasses, ruler and a very sharp pencil only,

a) Construct a rectangle ABCD where line AB is 7.4cm and line BC is 4cm. ***(4marks)***

b) Measure diagonal line BD = ... cm ***(1mark)***

END