Plot 48 Muwaire Rd (behind IHK Hospital)
P.O.BOX 5337, KAMPALA - UGANDA
Tel: 256783111908
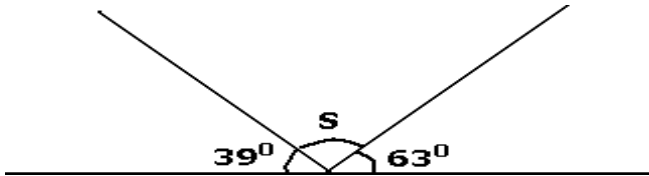Email: info@stagnes.co.ug
Website: www.stagnes.co.ug

P.7 MATHEMATICS HOLIDAY WORK

NAME:_____STREAM_____

SECTION A

1. Add: 254 + 46.

2. Find the size of the angle marked S in the figure below.

3. Jogo walked 2.3 Km from his home to his daughter's house. Express the distance in metres.

4. Simplify: 8m − (2 + m).

5. Multiply: 106 x 4.

6. Solve: $2P - 8 = 16$.

7. Subtract: ½ - ¼

8. Change 5 bases ten to binary.

9. What is the complement of 60^0?

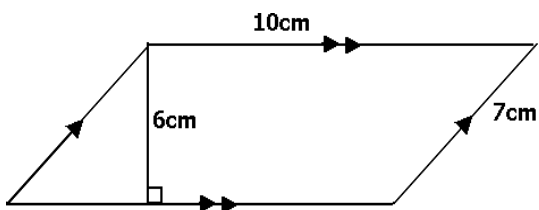10. In a class of 60 pupils, 12 are girls. Express the number of girls as a percentage of the whole class.

11. If set P = {1,2,3, 4} and set P U Q = { 1, 2, 3, 4, 5, 6}, find the members of set Q.

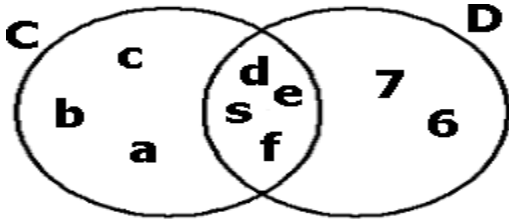12. If a $^1/_6$ P = 1 $^1/_6$, find the value of P.

13. Find the Greatest Common Factor of 8 and 20.
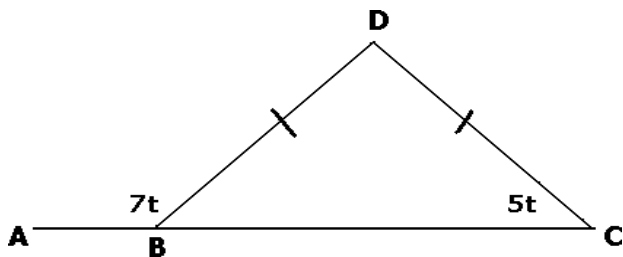
14. Find the area of the parallelogram drawn below.

14. Mapeera bought 4 exercise books at sh.1200. How much would he pay for 8 similar books at the same rate?

16. Use the diagram given below to find n(C U D).

17. Julian, Edwin, Sylvia and Joan are 11, 9, 15, 16 years old respectively. Find the range of their ages.

18. In the figure below, BCD is a triangle and ABC is a straight line. Find the value of t.

19. A shopkeeper increased the price of a pencil by 20%. What is the cost of the pencil if its original price was sh.50.

20. List the integers which are the solution set for X such that: 8 + X < 12.

<center>**<u>SECTION B</u>**</center>

21. In a P. 7 class, there are 120 pupils. 40% of them are boys.
(a) Find the number of girls in the class.

(b) How many more girls than boys are there in the class?

(c) If a class prefect is chosen at random, what is the probability that the prefect chosen is a girl?

22(a) Kirya is 3 times as old his daughter. The difference between their ages is 36 years.
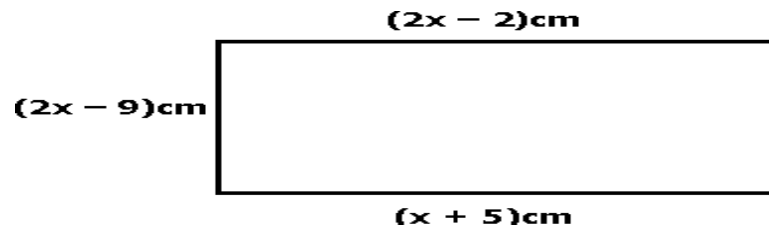
How old is the daughter?

(b) Solve: 2(3a − 5) − 3(1 − a)= 14.

23. A Gaso bus traveling from Kampala to Lyantonde at an average speed of 60 Km/h broke down after 2 ½ hours' drive. The repairs took 30 minutes. The bus continued with the journey at an average speed of 50 Km/h for an hour.
(a) Find the distance covered by the bus.

(b) Find the average speed of the bus over the whole journey.

24. The figure below is of a rectangle. Use the information given to answer the questions that follow.

$(2x - 2)cm$

$(2x - 9)cm$

$(x + 5)cm$

(a) What is the perimeter of the rectangle?

(b) Find the area of the rectangle.

(b) Find the length of the diagonal of the rectangle.

25. In Mondi Primary School, ¾ of the who sat for PLE passed.
(a) If those who failed were 30, Find the number of pupils who passed.

(b) What is the percentage of the pupils who failed?

26. The table below shows some of the items Mrs. Okurut bought for Christmas. Use it to answer the questions that follow.

Items	Quantity in Kg.	Cost per Kg.	Total
Rice	3 ½	Sh.900	Sh............................
Meat	3	Sh.2000	Sh.6000
Sugar	2 ½	Sh............................	Sh.2500
Tomatoes	....	Sh.400	Sh.1000
Onions	2	Sh.600	Sh.1200
Total		sh............................	

Complete the table above.

(c) If she had sh.15, 000 and she was given a discount of 10%, what was her balance?

27. A parent gave exercise books to two sons and a daughter: (James, Peter and Jane) in the ratio 3:5:4 respectively. If Jane got 16 exercise books, how many exercise books did the parent give out altogether?

28. The table below shows marks scored by pupils in a Mathematics test. Use it to answer the questions that follow:
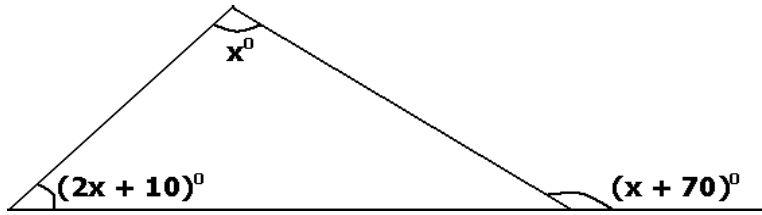
Marks scored	70	40	30	50
Number of pupils	3	4	2	1

(a) How many pupils did the test?

(b) Find the modal mark.

(c) Find the mean mark.

29. Find the value of the angle marked (2x +10)⁰ in the figure below.

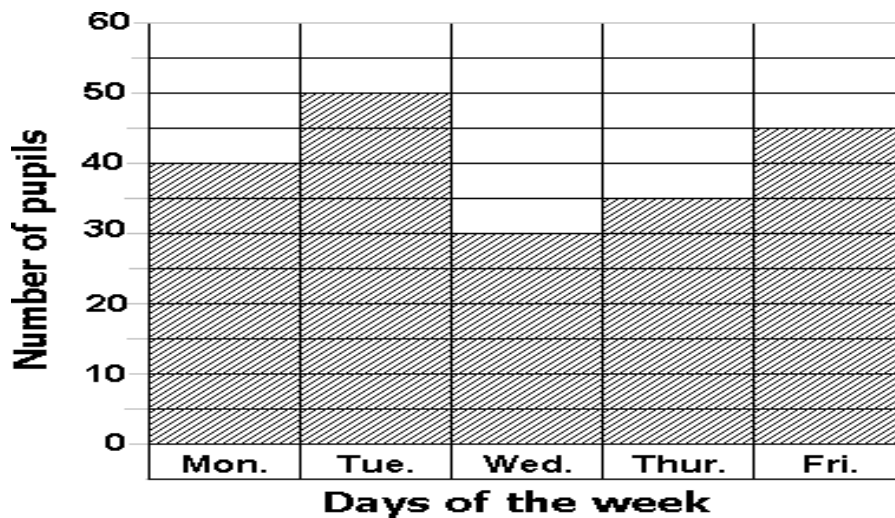30. Using a pair of compasses construct rectangle ABCD where AB=8cm and CD=6cm

31. Masembe drove at 60 Km/h for 2 ½ hours from town A to town B.
(a) If Masembe left town A at 1.30 p.m., at what time did he reach town B? (Give your answer in a 24- hour clock)

(c) If the cost of petrol was sh. 1190 per litre and Masembe's car used one litre to cover 10 Km., find the cost of petrol for the journey.

32. The graph below shows the attendance of P.7 pupils last week in Kamese Primary School. Study it carefully and answer the questions that follow.

(a) How many pupils were present on Thursday?

(b)

Find the difference between the highest and lowest attendance in the week.

(c) How many pupils attended that week altogether?

What was the average attendance for the week?

(d)