STANDARD JUNIOR SCHOOL - ZZANA
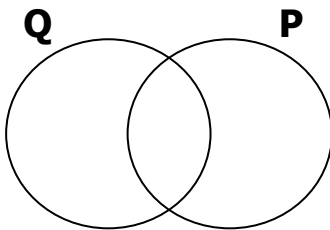
HOME TEST, 2020
P.5 MATHEMATICS (SET 5)

Name: _____

SECTION A (20 QUESTIONS - 40 MARKS)

1. Multiply 23 x 3

2. On the venn the diagram below, shade set P

Q   P

3. Mr. Bandeeba had $\frac{5}{7}$ of a cake; he gave away $\frac{3}{7}$ to his friend Joomi. What fraction did he remain with?
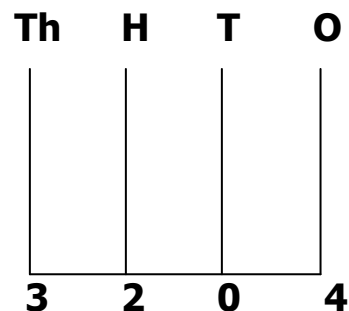
4. Munene is 49 years old. Write her age in Roman numerals.

5. Five apples cost shs. 1,500. Find the cost of 3 similar apples?

6. Write the next number in the sequence.

   19,   17, 16, 14,   13, _____

7. By use of beads, show 3204 on the abacus shown below.

   Th   H   T   O

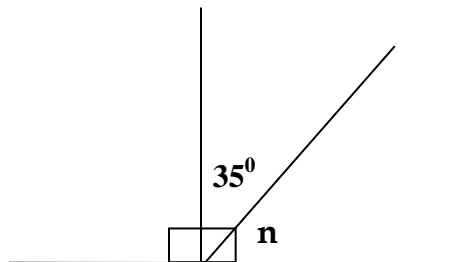   3   2   0   4

8. What number must be added to 137 to get 328?

9. Write 40,090 in words.

10. Work out the value of the box.

$\boxed{}$ + 14 = 29

11. Change 38_{ten} to base five.

12. What is the size of missing angle?

35⁰

n

13. A fight between Golola and Nagi started at 1:45 a.m and ended at 2:20a.m
How long was the fight?

14. Given that represents 12 flowers. Draw diagrams to represent 60 flowers.

15. Express $3\frac{1}{5}$ as an improper fraction.

16. Work out:

Hrs	Minutes
3	50
+ 2	76

17. Using a ruler, pencil and a pair of compass, construct an angle of 60^0

18. Prime factorize 18 and write its prime factors in set notation form.

19. Find the L.C.M of 6 and 9.

20. With the help of a dial, work out;
    4 + 4 = _____ (mod 5)

21. Given that
    Set M = {odd numbers less than 10}
    N = {prime numbers less than 10}
    a) Draw venn diagrams and represent the above information.
                                    (3 marks)

    b) Find M – N   **(1 mark)**

    c) n(M ∩ N)   **(1 mark)**

22. a) A father went to buy pens for his children. He bought 6 ½ dozens. How many pens did he buy altogether?
                                    (2 marks)

3

b) If each pen costs shs. 150, find the total cost of all the pens he bought.

(2 marks)

c) If the father had 6 children and he distributed all the pens equally, how many pens did each child get?

(2 marks)

23. (a) What number has been expanded to get?
$(3 \times 10^2) + (8 \times 10^1) + (2 \times 10^0) + (5 \times 10^{-2})$

(2 marks)

b) Round off 2696 to the nearest tens. **(1 mark)**

c) Find the product of the value of 7 and the place value of 9 in the number 9703. **(2 marks)**

24. a) Find the median of the following;
-1, 3, 2, -4 and 0

(1 mark)

b) Mugabi scored the following marks in a weekly test.

Eng	Mtc	Sst	Scie	RE	Comp
93	95	70	93	89	40

i) What was his range?

(2 marks)

ii) Work out his average score.

(2 marks)

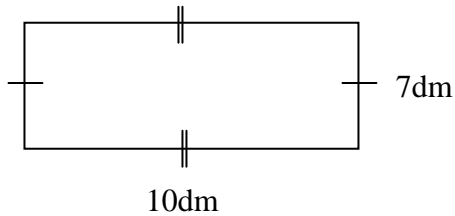iii) Write the tally for his modal frequency.

(1 mark)

25. Ocailap had a 1-meter string. He cut short strings of 20cm long from it.
a) How many short strings of 20cm each did he get?

(2 marks)

b) Below is a rectangular compound.

7dm

10dm

If Karungi moved round her compound once, what distance did she cover? **(2 marks)**
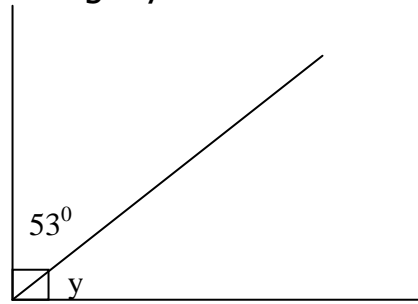
26. In the space below, draw a regular hexagon of side 4cm.
(4 marks)

27. (a) Add: $101_{two} + 11_{two}$
(2 marks)

(b) Express 213_{five} in base ten.
(2 marks)

(c) Expand 134 using place values.
(1 mark)

28. In the figure below, find the value of angle y. **(2 marks)**

53^0

y

b) Find the complement of 75^0
(2 marks)

29. (a) Simplify: $-3 + {}^+5$
(1 mark)

(b) Arrange +1, -2, 0, -5 starting with the smallest. **(1 mark)**

(c) Simplify; $^-4 + {}^+1 =$ _____ using a well-drawn number line.
(2 marks)

30. Given that a = 12 , b = 4, and

$$c = \frac{1}{2}$$

Find the value of; **(2 marks @)**

a) ac

b) b + a

c) b – c

31. In preparation for beginning of term II 2015. Alinda bought the following items.
A dozen of books at shs. 6000
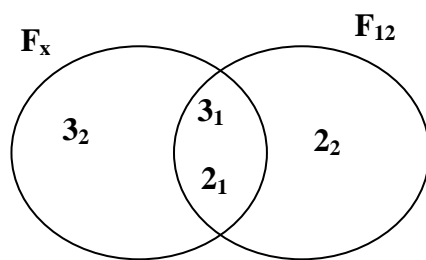4 pens at shs. 400 each
A geometry set at 1400/=

a) What was the cost of one book?
(2 marks)

b) Find her total expenditure
(2 marks)

c) If she had 10,000/=. Find her change.
(2 marks)

32.   Study the Venn diagram below and answer the questions that follow.

F_x F_{12}

a) Find the value of x.   **(2 marks)**

b) Find the G.C.F of F_x and F_{12}.   **(1 mark)**

c) Find the L.C.M of F_x and F_{12}.   **(2 marks)**