VILLA ROAD PRIMARY SCHOOL

PRE – P.L.E MOCK SET III EXAMINATION, 2021
MATHEMATICS
Time allowed: 2 hours 30 minutes

NAME: .... INDEX NO. ....

SECTION A (40 MARKS).

1. Work out 151 + 23

2. Find the sum of the first two consecutive numbers.

3. What is the product of the place value of 6 and the value of 4 in the number, 473.26?

4. Simplify 5q - 3p - q + 7p

5. The mean weight of 5 boxes is 45kg. If one of the boxes is removed the mean weigh of the remaining boxes becomes 36kg.
   Find the weight of the box which was removed.

6. Simplify -9 - ¯12
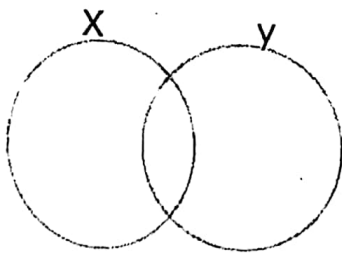
7. Express $\underline{4}$ as a decimal.
   7

8. Given that a = 5, b = 3 and c = 2.
   Find the value of   a -b (c - b) - c

9. One US dollar costs Ug shs. 2200.
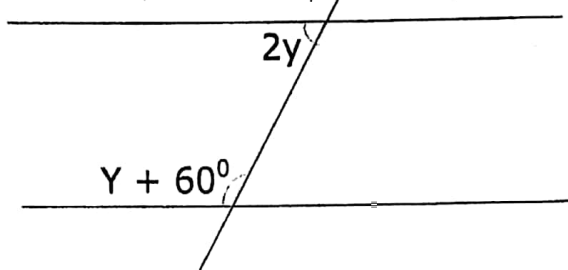   How many dollars can one buys with Ugshs. 15400?

10. Find the next two missing numbers in the sequence.
     3,4,5,7,8,12,15,16,............. , ...

11. Shade set x only in the diagram below.

12.   Subtract **XC** from **CX** and write the in numerals.

13.   Find the value of Y in the diagram below

$$2y$$

$$Y + 60^0$$

14. The cost of one book is shs. 400, find the cost of 3 dozens of books.
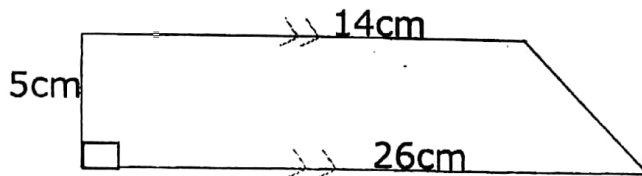
15. Round off 9.98 to the nearest tenths.

16. In a class, there are 25 boys and 20 girls. If 5 boys are absent. Find the probability of picking a boy who is present.

17. A rectangular tank measures 7 m by 6m by 8m.
Calculate the total surface area of the tank.

18. A car travels at an average speed of 90km/hr in 20mins.
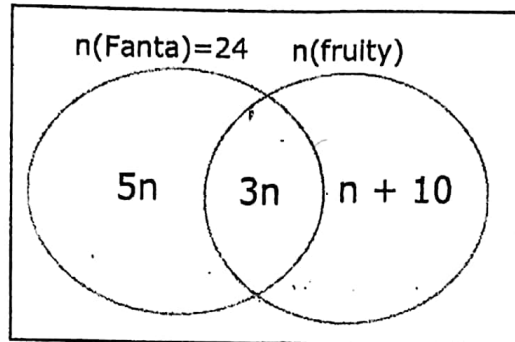Find the distance covered by a car.

19. Work out 111_{two} x 11_{two}

20. Find the perimeter of the figure below.

SECTION B. (60 marks)

21. The venn diagram below shows different drinks of sodas taken by different people at a party.

n(Fanta)=24   n(fruity)

5n   3n   n + 10

a. Find the value of n.
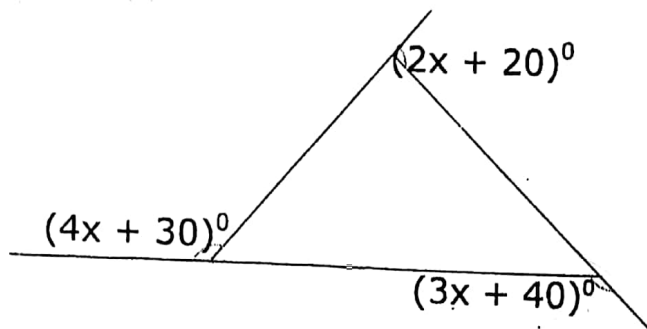
b. Find the total number of people who attended the party.

c. How many people did not take fruity?

22. Complete the magic square below.

		6
	5	7
4	9	

23. Study the figure below and answer the questions that follow.

$(2x + 20)^0$

$(4x + 30)^0$

$(3x + 40)^0$

a. Find the value of x

b. The interior angle of a rectangular polygon is $160°$. Find its exterior angle.

24. Square tiles of sides 30cm were fixed on a floor measuring 9m by 6m
    a. How many tiles were used?

    b. If a box containing 50 tiles costs shs. 250,000. How much was spent on tiles.
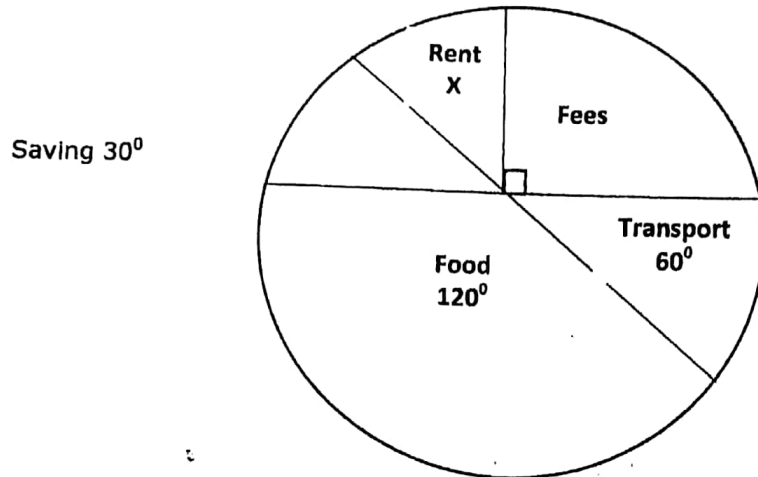
25. Using a ruler, pencil and a pair of compasses only construct a rhombus ABCD such that diagonal AC = 8cm and diagonal DB = 6cm.

b) Measure the length of BC in centimeters.

26. a) Solve $3 - \dfrac{k}{2} = -5$

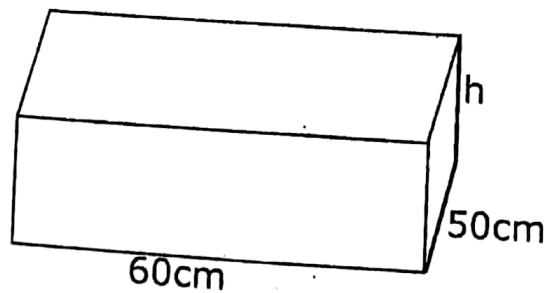b) Simplify: $\dfrac{2}{3}(6w - 3) - \dfrac{1}{2}(4 - 2w)$

27. The pie chart below shows how a man spends his monthly salary.

a. Find the value of x

b. If she spends shilling sh.15,000 on rent. What is the man's monthly salary?

28. Study the figure below and answer the questions that follow.

60cm

50cm

h

a. The volume of the tank above is 120,000cm³.
   Find the height of the tank.

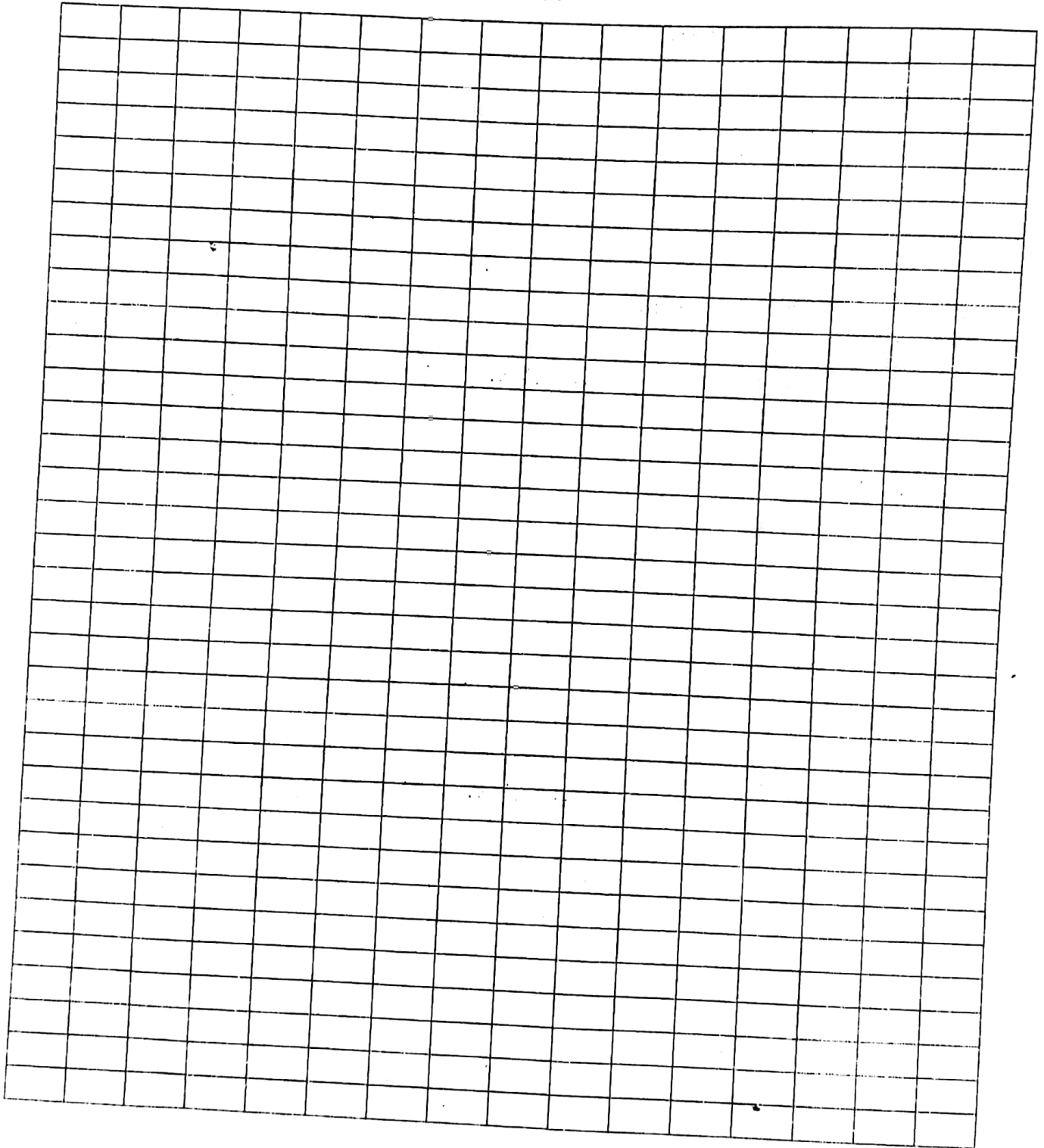b. Work out the capacity of tank in liters.

29. Anguti arrived at the station 15minuts before the normal departure time for a train to Kasese. If the train was 35mins late, how long did she wait for the train?

30. Plot the following co ordinates on an 8by 8 grid on the graph below and from join them with lines p(0,3) R (-3, -2) S (3,-2)
a. Name the figure formed.
b. If 1 square = 1cm, find its area.

31. Express the following in powers.

   a. $2^2 \times 2^3 \times 2^2$

   b. $7^2 \times 7^3 \times 7^0$

   c. $3^9 \times 3^3$

32. After spending 30% of his salary income, a man was left with only shs. 210,000

   a. How much is his income?

   b. How much did he spend?