UNEB BLUE PRINT ITEM (TWO)

MATHEMATICS
SECTION A (40 MARKS)

1. Workout **3636 ÷ 9**
Simplify **1** $\frac{2}{4}$

$x \quad z$

2.

4.

Sove: **12 – 2k** = 2

3. Write **44444** in words

6.

Workout: **(7.5** x **6)** + **(7.5** x **4)**

5. Find the value of **k**

7. A

50^0

baby weighs

8500 grams. Express

100^0

this mass in kilograms.

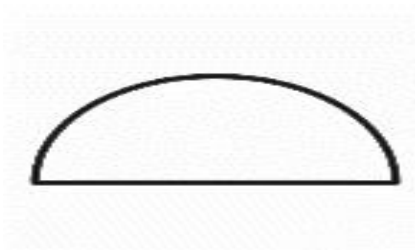9. A
and
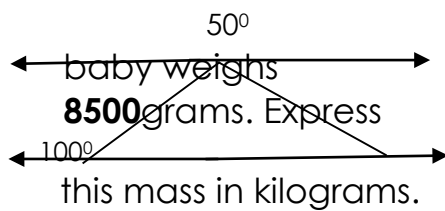
car left Kampala at **2:15p.m.**
it
8. Work out **1101**two **– 110**two
arrived at Masaka at **4:30p.m.**
long
the journey take?
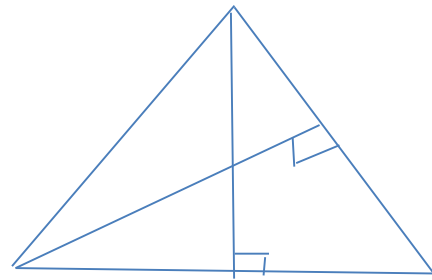
How
did

10. Find the next number in
sequence.

the

1, 8, 27, 64,_____,_____ below. (Use π as 3.14)

11. Workout the perimeter of the figure

50cm

12. Five men take **6** days to clear a shamba.

13. Write **CMIX** in Hindu Arabic numerals.

How many more days will **3** men take to do the same piece of work, working at the same rate?

15. Find the average of **5y**, **9**, **3y** and **19**

14. If today is **Friday**, what day of the week will it be **45** days from today?

17. Find the length of line **AE** on the figure below if **AC = 20cm**, **BD = 8cm** and **BC = 16cm**

A

16. The average mass of three boys is **24kg** if mass of two boys is **50kg**, find the mass of the **3rd** boy.

D

B   E   C
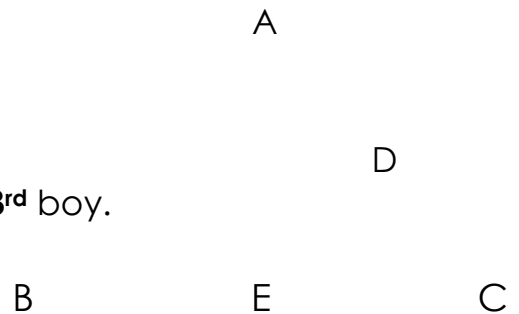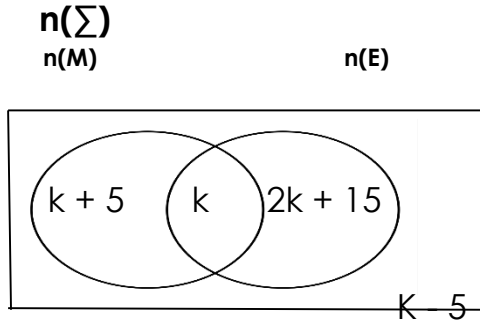
18. Find the square root of **144**.

19. If a =0 and b = 7, find the value of $b^2 + m^a$

20. The radius of a circular kraal is **21** metres. Musa hopes to put the poles **3** metres apart around his kraal. How many poles are needed?

SECTION B   (60mks)

21. The venn diagram below shows a common who like **math(M)** and its lowest form. (3mks) class. Study it questions that follow.

students b). Express **0.2444…..** as **English(E)** in a P.7   fraction in carefully and use it to answer the

n(∑)

n(M)   **n(E)**

$$k + 5 \qquad k \qquad 2k + 15$$

K 5

a).Find the value of **k** if **50** students like only
    one subject. (3mks)
of water was used, **2000** litres remained. holds

b). How many students like **English** only?
  (2mks)

23. A tank was $\frac{3}{4}$ full of water. When $\frac{1}{6}$ Find the amount of water the tank when completely full. (5mks)

22a). Simplify **0.43 + 0.32**   (2mks)

24a). A motorist left town **A** at **8:00**am and travelled to town **B** at **60**km/**hr** for **2½**hrs. He

returned through the same route at **100**km/**hr**. Calculate the distance between town **A** and **B**   (2mks)

b). Calculate the motorist's average speed for the whole journey. (3mks)

25. Find the area of the shaded part in the figure below. (5mks)
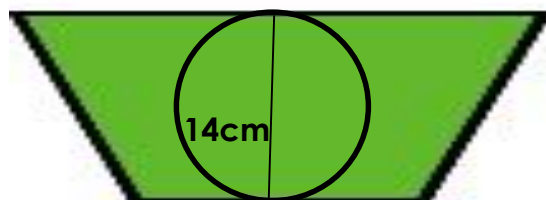
16cm

shilling thousand note, calculate her change. (1mk)

26. Amelia went for shopping to the market and bought the following:-
2½kg of sugar at Shs**4000**per kg.
½kg loaf of bread at Shs**3000**,
250g of blue band at Shs**2,000**,
2 bars of soap at Shs**8,000** a bar
24 mangoes at Shs**20,000** for **4** mangoes
a). Calculate her total expenditure. (4mks)

b). If Amelia went with a fifty thousand

27. The table below shows marks scored

29a).Oboi deposited Shs**500,000** in the bank

by pupils in a test.

Marks	40	k	60	80
No of pupils	2	4	3	1

the value of **k** if the mean mark of the pupils is**70**.(3mks)

Which offers an interest rate of **20%** per annum. How much interest did he get at end of **6** months? (3mks0 a). Calculate

b).Calculate the amount of money Oboi after a period of **6** months. (2mks)

b). Find their range. (2mks)

28a). Solve **3 – 2(2**n **– 2)** = 4 (2mks)

b). If **104$_n$** = **29$_{ten}$**. Find the value of **n**. (3mks).

30a)Juliet is **3** times as old as her son now. In **5** years' time their total age will be **50** years. How old is Juliet now?(3mks)
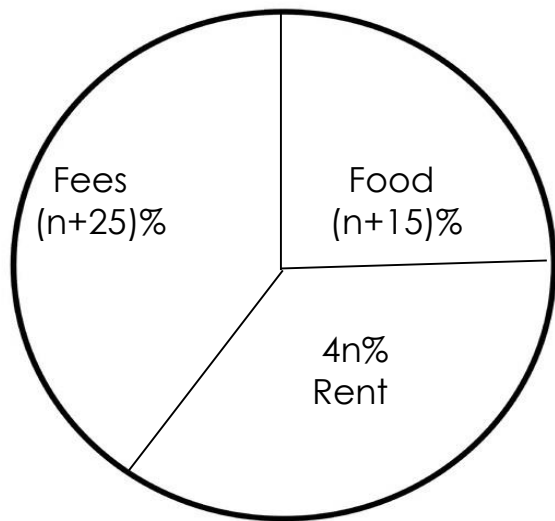
b).How old will the son be in **5** years' time?

31a). The total surface area of a cube is **96**cm^2. Calculate the length of each Side.(3mks)

b). Work out its volume. (2mks)

32. The pie-chart below shows how Mrs. Opio spent her monthly salary.

```
        Fees          Food
      (n+25)%        (n+15)%

              4n%
              Rent
```

a). Find the value of **n** (2mks).

b). If she spends Shs**240,000** on Rent, how much money does she earn? (3mks).