

# LITTLE MUHEJI SCHOOL

SET XXIII EXAMINATION 2020

PRIMARY SEVEN MATHEMATICS

NAME: \_\_\_\_\_

CLASS: \_\_\_\_\_ STREAM: \_\_\_\_\_

1. Work out:  $32 \times 3$

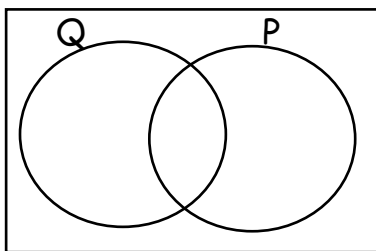
Section A

2. Write 6005019 in words.

3. Simplify:  $1\frac{2}{3} \div \frac{5}{6}$

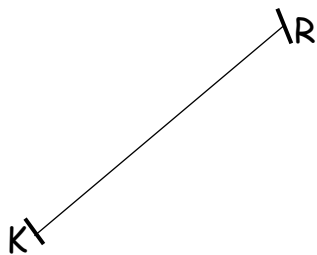
4. Shade  $(P - Q)^1$

$\Sigma =$



5. Find the highest number that can divide 36 and 30 without a remainder.

6. Write 3:30pm in 24hour clock system.
7. Set  $N=\{4,5,6,7,8\}$ , calculate the number of subsets in set N.
8. Simplify:  $3a + 4b - a - b$
9. Given than  $H=\{a,d,c,e,f\}$  and  $R=\{b,c,e,g,h\}$  Find  $n(R-H)^1$
10. A dice is tossed once, find the probability of a triangular number appearing on top.
11. Using a pair of compasses, bisect this line KR.



12. The area of a rectangle is  $96\text{m}^2$ . Find its length if its width is 6m.

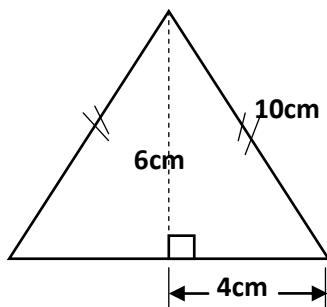
13. How many quarter litre bottles are in a 20 litre container?

14. Add:  $221_{\text{three}} + 112_{\text{three}}$

15. Abigaba cycled a distance of 36km in only  $1\frac{1}{2}$  hours. Find his speed in m/sec

16. Our headteacher's car is the 9<sup>th</sup> from either sides of the line in the school convoy. How many cars are in the school convoy?

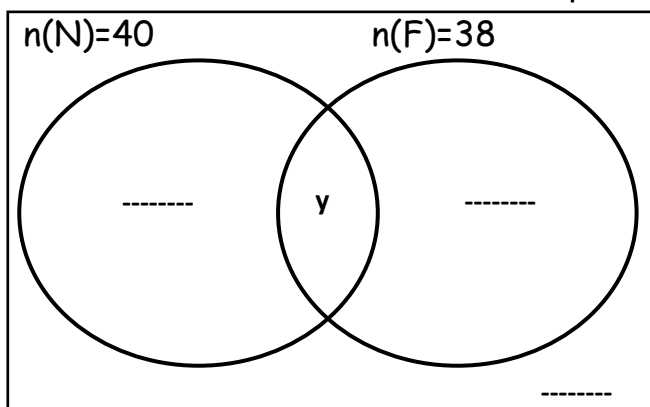
17. Work out the area of the figure below.



18. In a farm of 120 animals,  $\frac{2}{5}$  are goats and the rest are sheep. How many animals are sheep?
19. Given that  $a=3$  and  $m=-2$ , find the value of  $a^2 - m^2$ .
20. It takes 3 men 20 days to dig a pit latrine. How many men working at the same rate can dig the same pit latrine in 12 days?

### Section B

21. In a family of 70 people, 40 like posho (P), 38 like Kaalo (K), 5 people do not like any the two dishes and  $y$  people like both Kaalo and posho.
- (a) Use the above information to complete the Venn diagram below. (3mks)



- (b) How many people like posho and Kaalo? (2mks)

(c) How many people like only one dish. (2mks)

22. a) Work out:  $\frac{3}{4} - \frac{2}{3} + \frac{1}{5}$  (3mks)

(b) Simplify:  $\frac{0.24 \times 0.3}{0.08}$  (3mks)

23. The exchange rate a KILEX forex bureau is as follows.

1kh sh.=Ush.35

1Us\$ = Ush.3800

(a) Mr. Opolot had 13000 Kenya shillings. How much money did Mr. Opolot get from the bureau in Uganda shillings? (2mks)

(b) How much money in Kenyan shillings will he get U\$315? (3mks)

24.a) Given that  $34_t = 112_{\text{four}}$ . Find the unknown base  $t$ . (2mks)

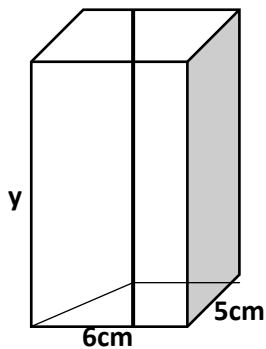
(b) Change  $123_{\text{four}}$  to base five. (3mks)

25. The sum of four consecutive odd numbers is 215.

(a) List these numbers. (3mks)

(b) Work out their range. (2mks)

26. The capacity of the tank below is 0.24litres.



(a) Find the height. (3mks)

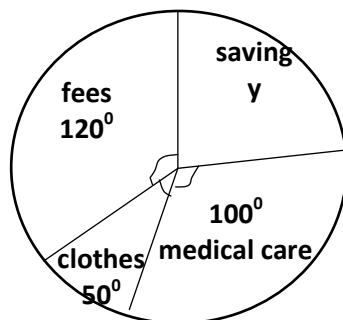
(b) Work out the total surface and area of the figure. (2mks)

27. Given three digits; 5, 0, 4

(a) Write all possible three digit numbers that can be formed, using the above digits. (3mks)

(b) Work out the median of the numerals formed. (1mk)

28. The pie chart below shows Mr. Barungi's monthly expenditure of his monthly salary.

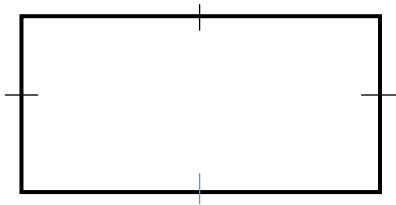


(a) Find the value of  $y$  (2mks)

(b) If Mr. Barungi spends sh,360,000 of fees, how much is his salary? (2mks)

(c) What percentage of his salary is spent on clothes? (1mk)

29. In the rectangle below, the length is twice the width.



(a) If its perimeter is 30cm, find the value of  $x$ . (3mks)

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



30. In the women's by-election in Kasese district, Win Kizza got three times as many votes as Muhindo Jane and Muhindo Jane got a half as many votes as Bisika. If 96000 votes were cast for three contestants. How many votes did each get? (4mks)
31. Benja went shopping in the market and bought the following items.  
3kg of sugar at sh.4000 a kg.  
500gm of salt at sh.1800 per kg.  
 $3\frac{1}{2}$  kg of tea leaves at sh.1000  
 $1\frac{1}{2}$  kg of meat at sh.9000 @kg
- (a) What was his total expenditure? (3mks)
- (b) If he remained with sh.6,600, how much money did he have at first? (2mks)
- (c) If he was given a 10% discount, how much money did he pay? (2mks)
32. A box containing spoons weighs 18.25kg and an empty box weighs 250g, if each spoon weighs 30g. How many spoons are in the box? (4mks)

**END**