

LITTLE MUHEJI SCHOOL

SET XXX EXAMINATION 2020 PRIMARY SEVEN MATHEMATICS

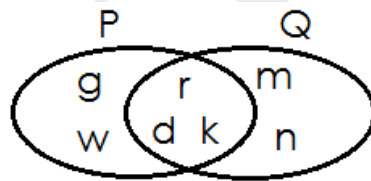
NAME: _____
CLASS: _____ STREAM: _____

SECTION A (40 MARKS)

1. Add:

$$\begin{array}{r} 210 \\ + 123 \\ \hline \\ \hline \end{array}$$

2. Use the Venn diagram below to find $P \cap Q$



3. Find the LCM of 12 and 16.

4. Work out; $3 + 4 = \underline{\hspace{1cm}} \pmod{7}$

5. Solve for n: $5 - 2n = 23$

6. Find the square root of 324.

7. Simplify: $\frac{8}{9} \times \frac{3}{4}$

8. Express 4 days as hours.

9. Use a pencil, ruler and a pair of compasses only to construct angle 270° .

10. A trader bought a text book at sh.18,000 and later sold it at sh.22,000. How much profit did he make?

11. A P.6 boy scored the following marks in a series of Math weekly revision exercises: 18, 19, 18, 17, 18, 14, 15, 17. Find his range of scores.

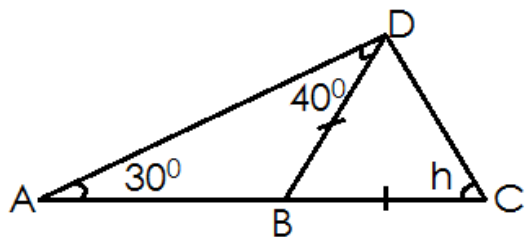
12. Salt is sold in 500g sachets. If Mr. Opio wants $2\frac{1}{2}$ kg of the same type of salt, how many such sachets will he buy?

13. Simplify: $3g - 4d - 4g + 2g$

14. Add:

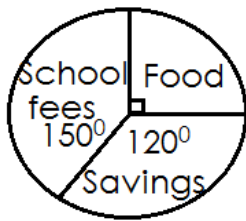
$$\begin{array}{r} 1 \quad 0 \quad 1 \text{ two} \\ + 1 \quad 1 \quad 1 \text{ two} \\ \hline \\ \hline \end{array}$$

15. In the figure below, ABC is a straight line, $\angle ADB = 40^\circ$ and $\angle DAC = 30^\circ$. Find the size of angle marked h.



16. The sum of two consecutive even numbers is 78. If the smaller one is n , find the value of n .

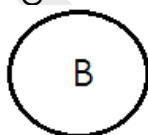
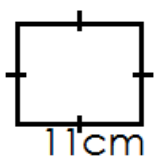
17. The pie chart below shows how a man spends his wage of sh.180,000. How much money does he spend on food?



18. Work out: $0.08 \div 0.2$

19. Work out using distributive property: $(56 \times 30) - (30 \times 14)$

20. The two figures A and B shown below have same perimeter. Find the diameter of shape B.

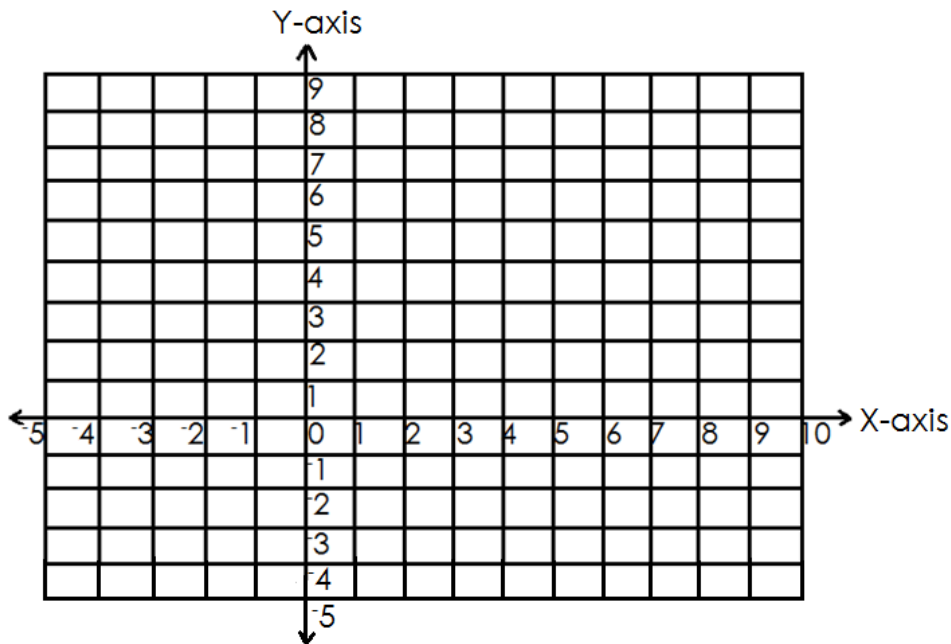


SECTION B (60 MARKS)

21(a) On the graph below, plot the following:

(3mks)

$A(-3, 2)$, $B(+3, -4)$, $C(-3, -4)$



b) Join A to B, B to C and C to A and name the figure.

(2mks)

c) Find the area of the figure.

(1mk)

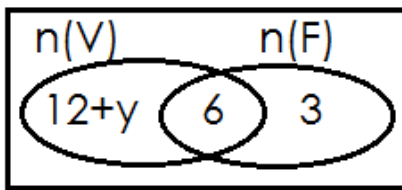
22. A man gave 2 twenty thousand shilling notes to the cashier to pay for the items that were sold as follows;

- 2kg of rice at sh.3500 per kg
- 3 bars of soap at sh.4000 a bar
- 4 sachets of milk at sh.2000 each sachet.

How much money did the cashier give him as change?

(6mks)

23. The Venn diagram below shows P.5 pupils who play volley ball (V) and football (F). a) If 20 pupils play only one game, find the value of y . (2mks)



b) How many pupils do not play volleyball? (2mks)

24. A parent left his home for school at an average speed of 80km/hr for 2 hours 30 minutes before his car got a mechanical fault. The repair took an hour. He was left with $\frac{1}{4}$ of the covered journey reach school. If he left home at 7:30am and reached school at 11:30am, at what speed did he drive up to school after repairing his car? (5mks)

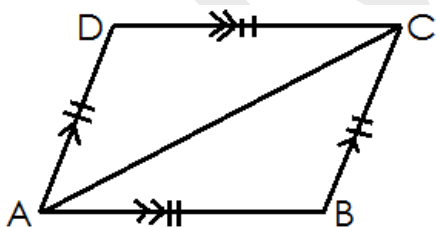
25(a) Construct triangle ABD where $AB = 6\text{cm}$, angle $A = 60^\circ$ and angle $B = 45^\circ$. (4mks)

b) Measure angle ADB (1mk)

26. The cost of a shirt is sh.6,000 more than that of a belt. A pair of trousers costs twice as much as a shirt. If the total cost of the three items is sh.38,000, find the cost of a shirt. (4mks)

27. In a class, $\frac{3}{5}$ are boys and the rest are girls. $\frac{2}{3}$ of the boys and $\frac{3}{4}$ of the girls have uniforms. If a total of 42 pupils do not have uniforms, how many pupils are in the class? (5mks)

28. The figure ABCD below is a rhombus with area 120cm^2 and the longer diagonal $AC = 24\text{cm}$.

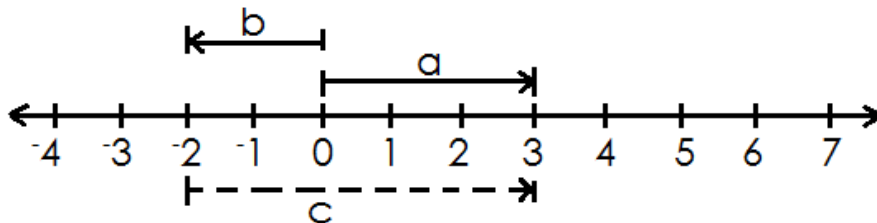


a) Find the length of the shorter diagonal. (2mks)

b) Find the perimeter of the rhombus.

(3mks)

29. Study the number line below and answer the questions that follow.



a) Write the integer represented by the arrow marked;

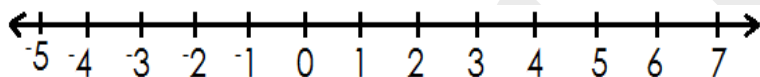
(2mks)

i) $a =$ _____

ii) $b =$ _____

b) Use the number line to work out: $-5 - -6$

(3mks)



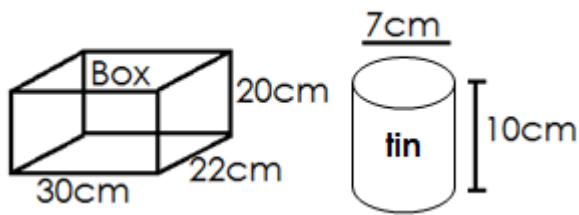
30(a) In a revision exercise marked out of 40 marks, a girl scored 15 marks. Express her score as a percentage.

(2mks)

b) A man's salary was increased to sh.348,000 by 20%. Find his old salary.

(3mks)

31. At a factory of juice, cylindrical tins of diameter 7cm and height 10cm are packed up right in a rectangular box measuring 30cm by 22cm by 20m.



a) Trader bought 15 packed boxes from the factory. How many tins of juice did he buy? (3mks)

b) Each tin contains 350ml of juice. How many litres of juice did the trader buy? (2mks)

32. The table below shows how P.5N pupils performed in a Music test marked out of 20 marks.

Marks	15	20	10	7	8
Number of pupils	10	2	4	3	1

a) How many pupils are in P.5N? (2mks)

b) Find the number of pupils who scored below the modal mark. (3mks)