KAMPALA JUNIOR ACADEMY

HOLIDAY WORK SET FIVE TERM I 2020

PRIMARY SEVEN

MATHEMATICS

Time allowed: 2 hours 30 minutes

Name: _____

School: _____

FOR EXAMINER'S USE ONLY

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**

2. Section **A** has 20 short questions (40 marks)

3. Section **B** has 12 questions (60 marks)

4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.

5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.

6. Unnecessary alteration of work may lead to loss of marks.

7. Any handwriting that cannot be easily read may lead to loss of marks.

8. Do **not** fill anything in the boxes indicated for Examiner's use only.

FOR EXAMINER'S USE ONLY		
Qn. No	**MARK**	**SIGN**
1 – 10		
11 – 20		
21 – 30		
31 – 32		
TOTAL		

Turn over

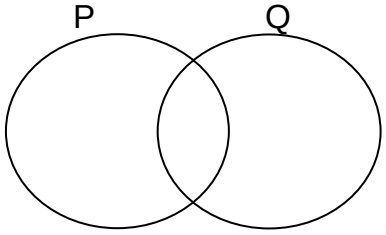
SECTION A: (40 MARKS)

1. Work out:
$$\begin{array}{r} 8\ \ 7 \\ -\ 6\ \ 5 \\ \hline \end{array}$$

2. Expand 4053 using place values.

3. Makula is 150cm tall. What is her height in metres?

4. In the venn diagram below shade set P only.



5. Find next two numbers in the sequence below.

   2, 3, 5, 7, ____, ____

6. Simplify: 0.6 ÷ 0.03

7. Use a dial to work out: 4 - 3 = ____ finite 5

8. The cost of a book is sh. 12000. How many books will John buy if he has sh. 36000?

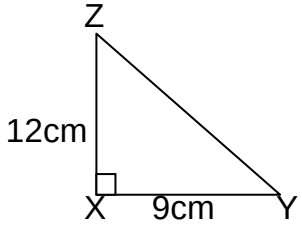
9. The table below shows the goals scored by some teams in a netball competion. Use it to answer question 9.

Goals	25	20	15	12	30	10
Number of teams	2	1	3	4	3	5

How many teams scored less than 20 goals ?

10. Given that A = {1, 3, 5, 7} and B = {1, 3, 6, 10, 15}
Find n(AUB)

11. Below is a right angled triangle XYZ. Find length of ZY.



12. Work out: $\frac{3}{4} \div 1\frac{1}{2}$

13. Round off 29.78 to the nearest whole number.

14. Multiply: 2 1 4 x 4

15. A circular flower garden has a radius of 7m. Calculate the distance round the circular flower garden. (Take $\pi = \frac{22}{7}$)

16. Study the following letter cards below.

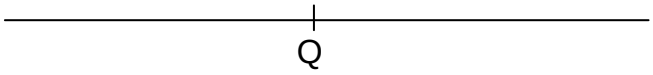
E	N	V	I	R	O	N	M	E	N	T

What is the probability of choosing letter N?

17. Given that a = 2, b = 4 and c = 3.

Find the value of; $\frac{3b + 6a}{c}$

18. Using a ruler, a pencil and a pair of compasses only, construct an angle of 30^0 at point Q.



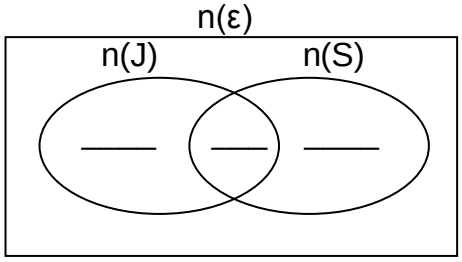
19. How many 200 grammes packets of sugar can be obtained from 2kg?

20. An examination started at 8:30 a.m. and lasted for 2¼ hours. At what time did it end?

SECTION B: (60 Marks)

21. At Mr. Kityo's party 20 guests were served with Juice (J) and 30 guests were served with Soda (S). 10 guests took both types of drinks.

(a) Complete the venn diagram below. *(3 marks)*



(b) How many guests took only one type of drink? *(1 mark)*

(c) How many guests attended Kityo's party? *(1 mark)*

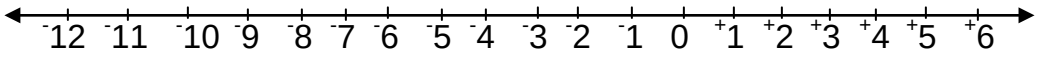
22a) Work out: $\frac{5.4 + 1.8}{0.3 \times 0.2}$ *(3 marks)*

(b) Simplify: $\left(\frac{5}{6} - \frac{3}{4}\right) \div 1\frac{1}{2}$ *(2 marks)*

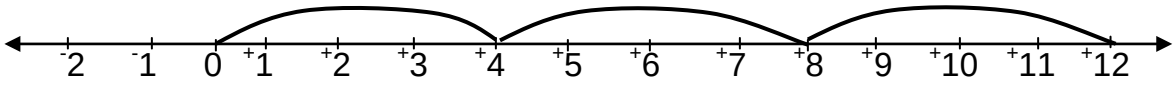
23a) Okello bought a shirt at 17 Euros. How much is this in Uganda shillings, if 1 Euro is equivalent to 3300 Uganda Shillings. *(2 marks)*

(b) A carpenter made a dining table set costing him sh. 420000. He sold it at a loss of sh. 28000. At how much did he sell it? *(2 marks)*

24.a) Use a number line to work out;
$^{-}9 + {}^{-}2 =$ _____ *(3 marks)*



(b) Write down the mathematical sentence represented by the number line below.
(1 mark)



25a) Find the value of $2^4 + 3^0$ *(2 marks)*

(b) Find the sum of the values of 6 and 3 in 96038. *(2 marks)*

(c) Use distributive property to work out. *(2 marks)*
(55 x 4) – (25 x 4)

26a) Using a ruler, a pair of compasses and a pencil only, construct a triangle PQR where line PQ = 6cm, angle QPR = 90^0 and PR = 8cm. *(4 marks)*

(b) Measure QR *(1 mark)*

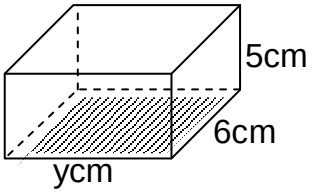
27a) A car moving at 70km/hr started a journey at 2:00 p.m. It completed the journey at 5:00 p.m. How long was the journey? *(3 marks)*

(b) Change 90km/hr to m/sec. *(2 marks)*

28.a) Juma, Peter and Alice shared shs. 450,000 among themselves in the ratio 2:4:3 respectively.
How much did Peter get? *(2 marks)*

(b) A worker's salary was increased from sh. 15000 to sh. 18000. By what percentage was the salary increased? *(3 marks)*

29. *Study the figure below and answer questions that follow.*

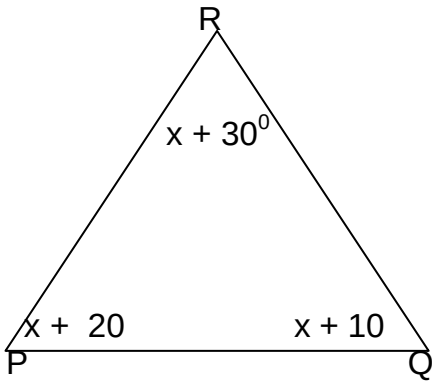


a) If the area of the shaded part is $48cm^2$, find the value of y. *(2 marks)*

(b) Find its volume. *(2 marks)*

(c) Find its total surface area. *(2 marks)*

30a) *Study the figure below and answer questions that follow.*



(i) Find the volume of x. *(2 marks)*

(ii) Find the size of QPR *(1 mark)*

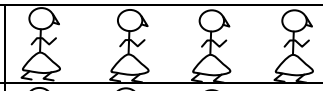
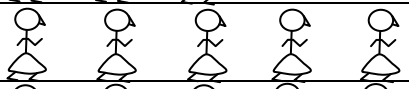
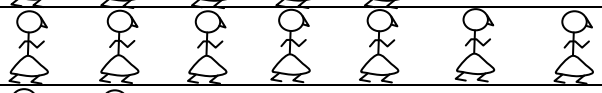
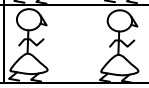
(b) $2x^0$ and $3x^0$ are complementary angles. What is the value of x? *(2 marks)*

31a) A number multiplied by 13 gives 52. Find the number. *(2 marks)*

(b) Solve: $2p + 4 + p = 13$ *(2 marks)*

(c) Simplify: $3y^2 \times 3y^2$ *(1 mark)*

32. *The picture graph represents the number of pupils who passed PLE 2015 in the schools below.*

Kibuli Dem.	
St. Peter's Primary School	
Kibuye P/s	
Lohana Academy	
Katwe P/s	

Scale:  represents 10 pupils.

(a) Which school had the best results that year? *(1 mark)*

(b) What was the total number of pupils who passed PLE in the above schools? *(2 marks)*

(c) Which school had the poorest results that year? *(1 mark)*

(d) How many more pupils passed in Lohana Academy than Katwe P/s? *(1 mark)*

Good Luck