HORMISDALLEN SCHOOLS EXAMINATIONS BOARD
MATHEMATICS ASSESMENT SET ONE – 2021
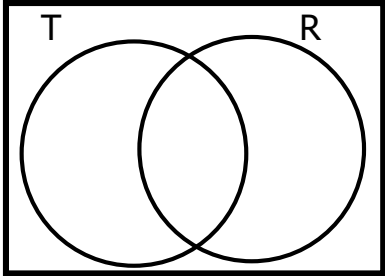## <u>**PRIMARY SIX**</u>

Name: _____
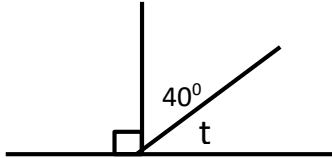
Branch: _____ Stream: _____

INSTRUCTIONS:

1. Attempt **all** questions.
2. All working **must** be shown.
3. Any drawings **must** be done in pencil.
4. No calculators are allowed in the examination room

Duration: 2 hours 30minutes.

Examiner's Use Only	
SECTION A	
SECTION B	
TOTAL	

SECTION A (40marks)

1	Work out: 2 2 x 2 _____	2	Write "**twenty thousand twelve**" in digit form.
3	Shade set **R** on the Venn-diagram below. T R	4	Change **1 2 1**$_{five}$ to denary base.
5	Fill in the smallest digit that makes the number below to be directly divisible by **3**. 4 ___ 4	6	The greatest common factor of 30 and **y** is 6. Find the value of **y** if their LCM is 60.

7	Arrange ⁻1, 2, 0,⁻3, 3 in an increasing order.	8	Express $\frac{5}{8}$ in a ratio form.
9	Arinda bought a dress at sh.20,000 and sold it at sh.25,000. Find his percentage profit.	10	Express 34 as a Roman numeral.
11	Find the size of the angle marked t. 	12	Work out: $\frac{5}{12}$ of $\frac{2}{5}$.
13	Solve for n: $\frac{n}{4}$ = 3.	14	Julius is to visit his uncle next week, what is the probability he will visit him on a day that begins with **'T'** ?

15	Add: Weeks Days
	        3 5
	    + 1 4
	    ‾‾‾‾‾‾‾‾‾‾
		16	A school bursar is issued receipts numbered 0845 to 0894 to students. How many receipts did he issue?

17	Find the square root 169.	18	Ronald borrowed sh.200,000 from Rwenshaka **SACCO** at an interest rate of 2% per month for 6 months.
19	Work out the value of 2 hundredths.	20	Write the shaded fraction in words.

SECTION B (60 marks)

21. Use the abacus below to answer the questions that follow.
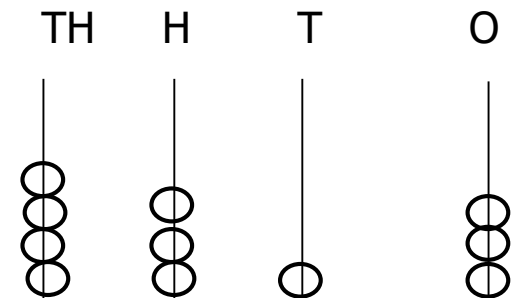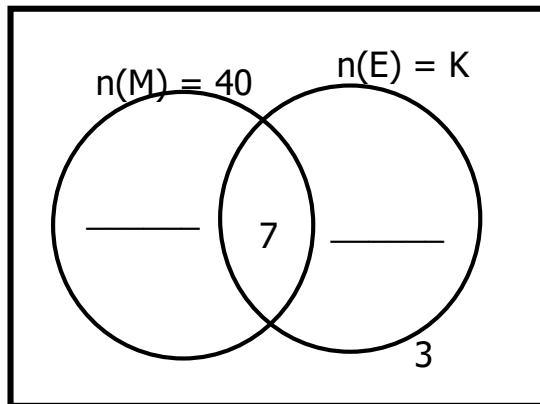

a) Write the numeral represented on the abacus above in words.   *(2marks)*

b) Find the sum of the values in the place value of thousands and in the place value of tens. **(3marks)**

22. The Venn-diagram below shows the number the pupils in Primary Seven who like Mathematics(M) and English (E).
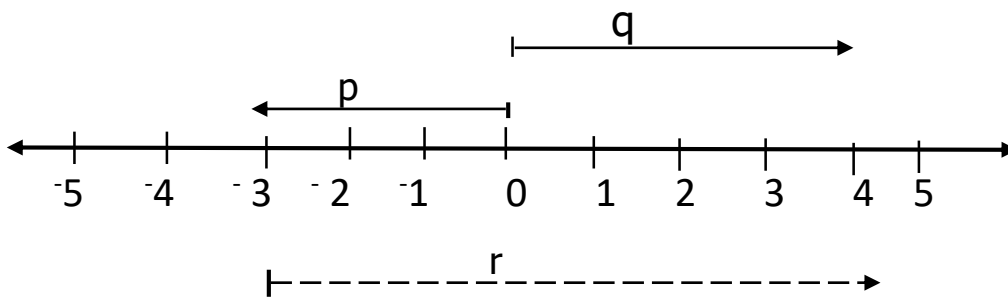
a) Complete the Venn-diagram below. **(2marks)**

b) If 20 pupils don't like Mathematics, how many pupils like English only? **(2marks)**

c) How many pupils are in Primary Seven? **(1mark)**

23. Use the number line below to answer the questions that follow.

i) p   ii) q   iii) r   *(1mark each)*

b) Write the numerical Mathematical statement describing the above expression. **(2marks)**

24. Using a pair of compasses, a ruler and a pencil only.

   a) Construct triangle CAT such that $\angle CAT = 60^0$, $\overline{CA}$ = 5cm and $\overline{AT}$ = 6cm.
   (4marks)

   a) Measure the size of angle ACT. **(1mark)**

25. The circle graph below shows how Mr. Bwama spends his monthly salary worth sh.360,000. Use it to answer the questions that follow.
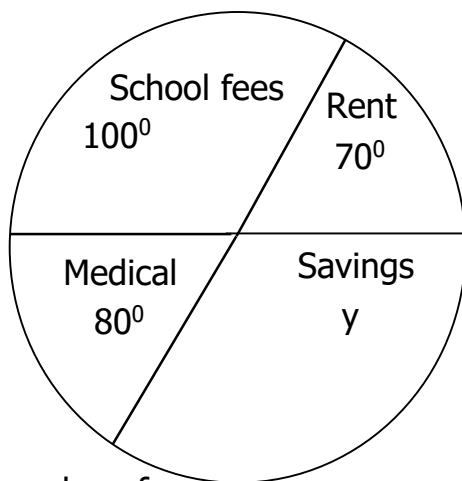
   a) Find the value of **y**. **(2marks)**

b) How much does he spend on rent? *(2marks)*

c) If he spends 60% of school fees to pay for a child in nursery education, how much does he pay for a child in nursery? *(2marks)*
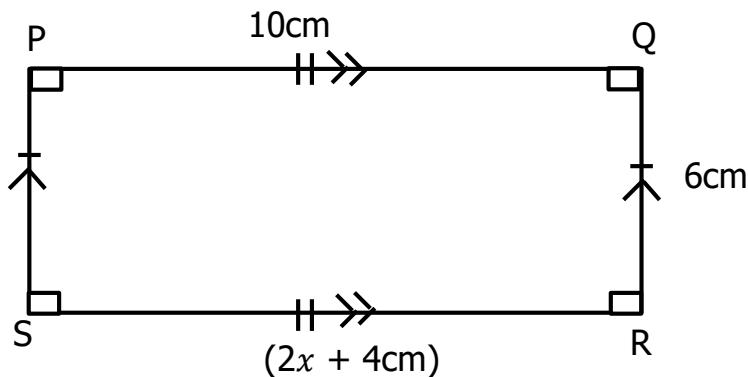
26. A track driver travelled from Kampala to Mbarara at a steady speed of 80km/hr for 3 hours and used 60km/hr for his return journey.
   a) How far is Mbarara from Kampala? *(2marks)*

   b) Find the time he spent on his return journey. *(2marks)*

   c) Calculate the total distance covered to and from Mbarara. *(1mark)*

27. Use the quadrilateral below to answer the questions that follow.

a) Find the value of x. *(2marks)*

b) Work out its area. *(2marks)*

c) Write **true** or **false**; is line **PQ** paralled to line **SR**? *(1mark)*

28. Given that x = y =4 and z = 5
    Find the value of: *(5marks)*
    i)   xyz   ii) 2y – z   iii) 2z + y

29. At St. Cecilia Primary School, two bells are rung at intervals of 40 minutes and 30 minutes accordingly to change lessons.

    a) After how many hours will the two bells be rung together again? *(3marks)*

    b) If they were first rung together at 8:00a.m, at what time will they be rung together again? *(2marks)*

30. In a school of 720 pupils,30% are in upper primary, 25% are in middle primary and the rest are in lower primary.
    a) Find the percentage of pupils in lower primary.   *(1mark)*

    b) How many pupils are in middle primary?   *(2marks)*

    c) How many pupils are in upper primary?   *(2marks)*

31. Complete the bill table below correctly.

Item	Quantity	Unit cost	Amount
Sugar	2kg	sh.3000	sh. _____
Soap	$1\frac{1}{2}$ bars	sh._____	sh.4500
Rice	_____	sh.4000	sh.8000
Millet flour	2kg	sh.2000	sh. _____
Total			sh. _____

32. a) Round off 6:545 to the nearest hundredths.   *(2marks)*

    b) Work out: $\dfrac{2.4 \ X \ 3.6}{0.48}$ *(2marks)*

END