

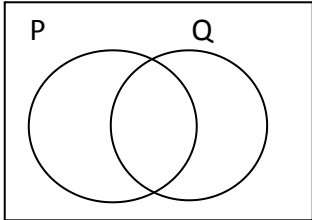
# MKM PRIMARY SCHOOL NSAMBYA

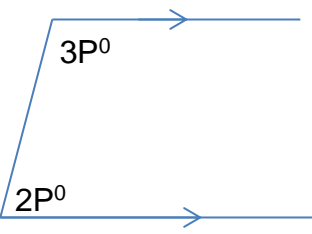
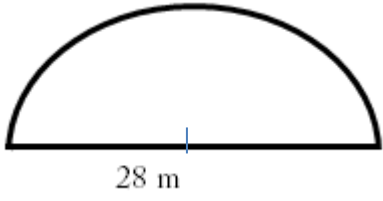
## TERM ONE RESEARCH WORK SET X

### 2020 P.7 MATHEMATICS PAPER.

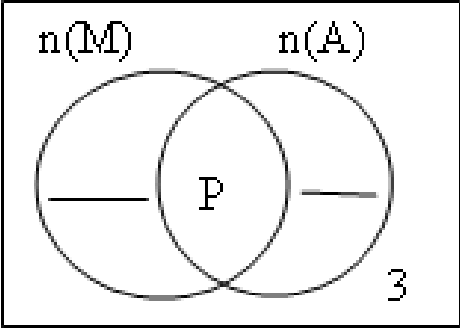
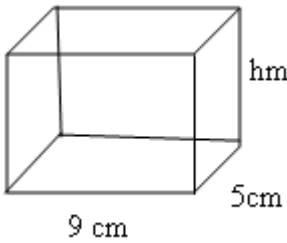
NAME: ..... STREAM: .....

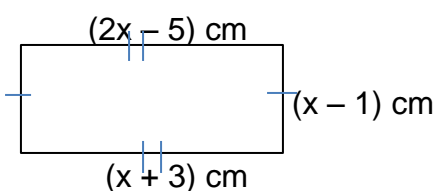
#### SECTION A (40 MARKS)

1.	Work out; $\begin{array}{r} 23 \\ \times 2 \\ \hline \end{array}$	7.	The cost of 6 text books is sh. 30,000. Find the cost of 4 similar text books at the same rate.
2.	Write 704.8 in words.		
3.	Shade $(P \cup Q)'$ on the venn diagram below. 	8.	In a village of 600 people $\frac{2}{3}$ of them are men and the rest are women. How many women are in the village?
4.	Find the next number in the sequence below; 10, 12, 15, 20, 27, .....		
5.	Increase sh. 2500 by 30%.	9.	Solve; $\frac{m}{12} = 9$

6.	Express 78000 in standard form.		
10.	<p>Find the value of <math>p</math> in the figure below.</p> 	13.	Change 96.3 km to metres.
11.	Using a pair of compasses, ruler and a pencil only, construct an angle of $60^\circ$ .	14.	<p>Find the perimeter of the figure below;</p> 

12.	If 1 US dollar costs Ug. Shs. 2600, how much money in Uganda shillings will Martha get if she comes from US with 200 US dollars?	15.	Add; $101_{\text{two}} + 111_{\text{two}}$
16.	Given the digits 1, 3, 6. Find the smallest even number that can be formed using the given digits	20.	Simplify the expression $\frac{a^5 \times a^3}{a^2}$
17.	Given that $2y^2 = 50$ , find the value of y.	<p><b>SECTION B (60 MARKS)</b></p> <p>Simplify: <math>\frac{1.5 \times 3.2}{0.3 \times 0.8}</math> (2mks)</p>	

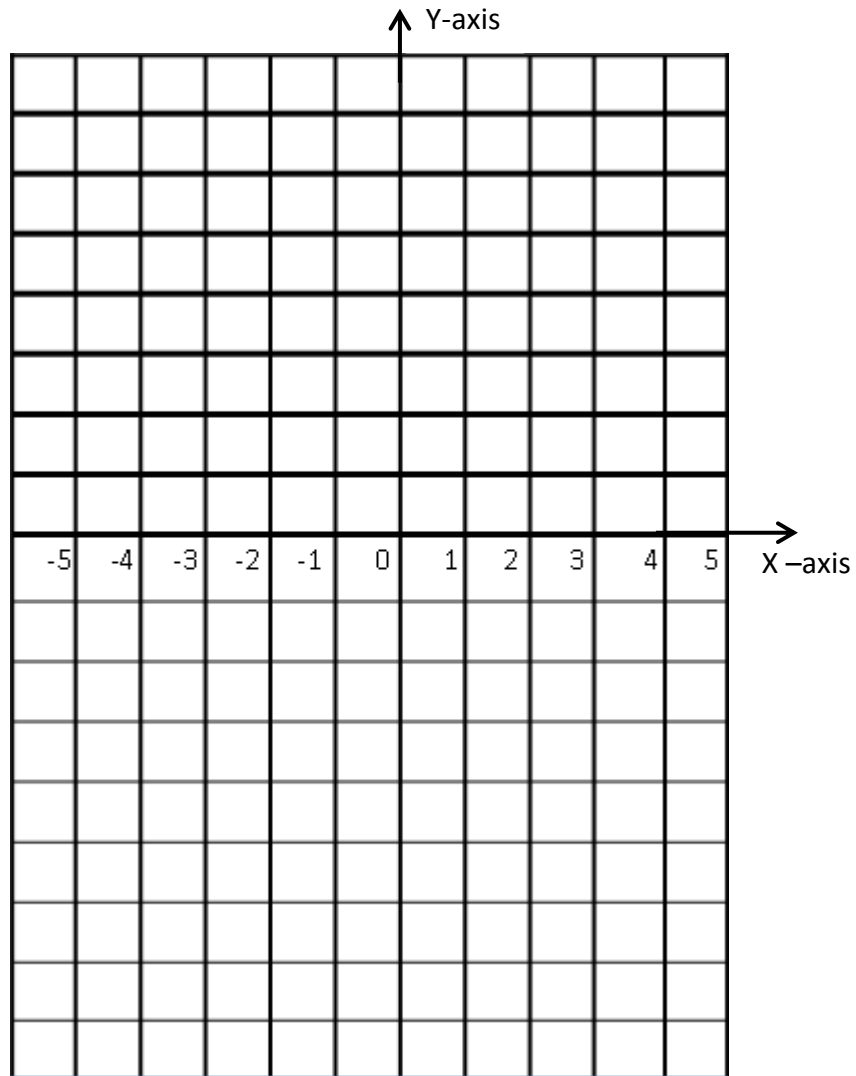
18.	Determine the number of sides a polygon whose exterior angle is $120^\circ$ .	b)	After covering $\frac{1}{4}$ of the journey, we still had 90 km to cover. How long was the journey? (3mrks)
19.	A dice is tossed once, what is the probability that an even number appears on top?		
22.	<p>In a class of 40 pupils, 25 like mathematics (M), 20 like Art and technology (A), P like both while 3 do not any of the subjects. Represent the above information on the venn diagram. (2mrks)</p> <p>a)</p> <div style="text-align: center;"> <math>\epsilon</math>   </div>	23.	<p>The figure below is a rectangular tank.</p> <div style="text-align: center;">  </div> <p>Find its height if its volume is <math>180\text{m}^3</math>.</p>

b)	How many pupils like both subjects? (2mks)	b)	Calculate its total surface area. (2mrks)																												
c)	How many pupils like only one subject?	24	Express 4:20pm in 24-hour clock system. (2mrks)																												
b)	Subtract; <table style="display: inline-table; vertical-align: middle;"> <tr> <td style="padding-right: 20px;">Wks</td> <td style="padding-right: 20px;">Days</td> </tr> <tr> <td style="text-align: center;">7</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">- 3</td> <td style="text-align: center;">5</td> </tr> <tr> <td style="border-top: 1px solid black;"></td> <td style="border-top: 1px solid black;"></td> </tr> </table>	Wks	Days	7	2	- 3	5			27.	PQRS is a rectangle. <div style="text-align: center; margin-top: 10px;">  </div>																				
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25	Complete the shopping table below:- (1mk each) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>Item</th> <th>Qty</th> <th>Unit cost</th> <th>amount</th> </tr> </thead> <tbody> <tr> <td>Posho</td> <td>.....</td> <td>Sh.2000</td> <td>Sh.8000</td> </tr> <tr> <td>Beans</td> <td>3 kg</td> <td>Sh. 1500</td> <td>Sh.....</td> </tr> <tr> <td>Rice</td> <td>4 kg</td> <td>Sh. ....</td> <td>Sh.10,000</td> </tr> <tr> <td>Sugar</td> <td>5 kg</td> <td>Sh.3000</td> <td>Sh.....</td> </tr> <tr> <td>Salt</td> <td>500gms</td> <td>.....</td> <td>Sh. 3000</td> </tr> <tr> <td>TOTAL</td> <td></td> <td></td> <td>.....</td> </tr> </tbody> </table>	Item	Qty	Unit cost	amount	Posho	.....	Sh.2000	Sh.8000	Beans	3 kg	Sh. 1500	Sh.....	Rice	4 kg	Sh. ....	Sh.10,000	Sugar	5 kg	Sh.3000	Sh.....	Salt	500gms	.....	Sh. 3000	TOTAL			.....	i)	Find the value of x. (2 mks)
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26.	<p>A parent gave his three children Mugerwa, Kirunda and Kisubi sh. 90,000 to share in the ratio 2:4:3 respectively. How much did each get? (4marks)</p>	ii)	<p>Calculate the area of the figure. (2mks)</p>
28.	<p>Using a ruler, a pencil and a pair of compasses only construct a rhombus ABCD where AB = 8cm and angle DAB=60°.</p> <p>(4mrks)</p>		
i)	<p>Measure the length it's diagonals. AC ; .....</p>		(1mk)
ii)	<p>BD = .....</p>		(1mk)

29.	The median of five consecutive numbers is -7. Determine the numbers. (2mks)	30.	Paula deposited sh. 120,000 in the bank that offers an interest rate of 10% p.a. for 2 years. a i) Calculate simple interest she earned after 2 years. (2mks)
b)	Find the product of the largest and the least number. (2mks)	ii)	Workout the total amount of money she had altogether after 2 yrs. (1mks)
b)	What is 40% of sh. 5000? (1mk)	b)	The average weight of 5 girls is 40kg while the average of 4 of them is 35 kg. what is the weight of the 5 <sup>th</sup> girl? (3mks)
31	Solve $2(3x - 5) - 3(x + 4) = 8$ . (3mks)		

32. Use the grid below and plot the following points. A (0,7), B (-4, 3) C (4,3) and D (0, -6). (4mrks)



b) Name the polygon formed after joining the points. (1mk)

c) Calculate its area. (1mk)