

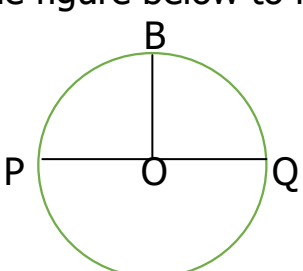
# **MATHEMATICS** *TIME: 2 HRS 30 MINS*

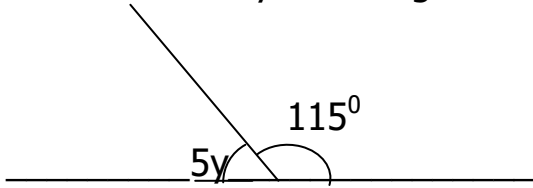
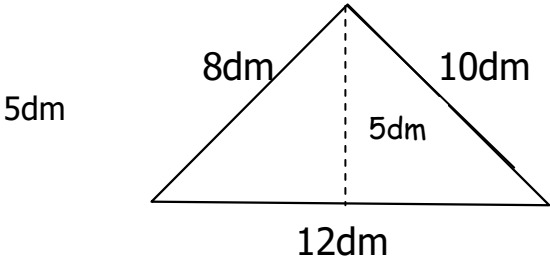
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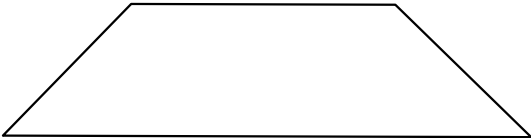
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## **SECTION A (40 MARKS)**

1	Work out: $99 - 34$
2	Write 19,040 in words.  _____ _____
3	Given that set $M = \{a, b, c, d, e\}$ and set $N = \{d, a, g\}$ , Find $(M \cap N)$
4	Use the figure below to name length OB and PQ. <div style="text-align: center;"></div> <div style="display: flex; justify-content: space-between;"><div>OB _____</div><div>PQ _____</div></div>
5	What number has been expanded to get $(8 \times 1000) + (5 \times 100) + (9 \times 10)$ ?
6	Solve: $2K + 8 = 18$
7	Express 4kg as grammes.

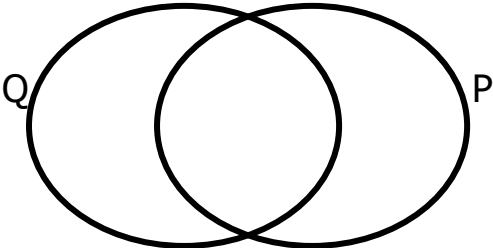
8	Find the value of 3 in the number 9.375.										
9	Calculate the size of $y$ in the figure below. 										
10	Change XXVII to Hindu Arabic numerals										
11	Find $\frac{1}{4}$ of 24 goats.										
12	A driver covered a distance of 300kilometres in 2 hours. Calculate his speed.										
13	Find the area of the figure below. 										
14	Work out: <table style="display: inline-table; vertical-align: middle;"> <thead> <tr> <th>Weeks</th> <th>Days</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>1</td> </tr> <tr> <td>– 9</td> <td>6</td> </tr> <tr> <td colspan="2"><hr/></td> </tr> <tr> <td colspan="2"><hr/></td> </tr> </tbody> </table>	Weeks	Days	14	1	– 9	6	<hr/>		<hr/>	
Weeks	Days										
14	1										
– 9	6										
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15	The cost of 4 books is sh. 2800. Find the cost of three similar books.										

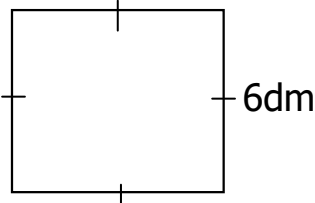
16	Simplify: $-8 + ^+3$
17	Simplify: $8m - 11m + 5m$
18	Show the lines of folding symmetry of the figure below. 
19	Find the lowest common multiple of 6 and 8.
20	Change $21_{\text{ten}}$ to base five

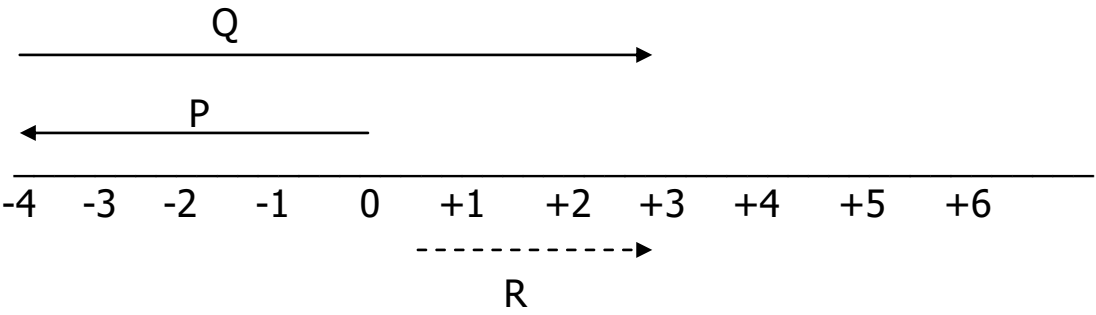
## SECTION B: 60 MARKS

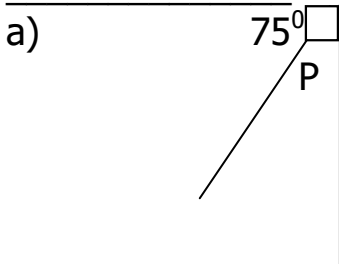
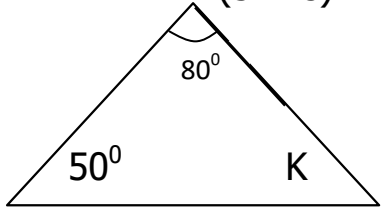
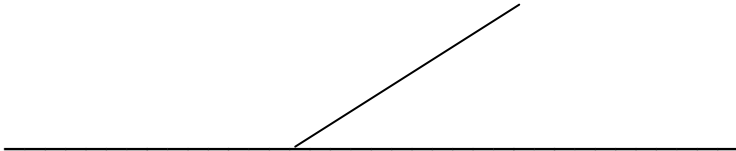
Answer all questions in this section

Marks for each are indicated in the brackets

21 (a)	<p>Given that set <math>P = \{a, b, c, d, e, f\}</math> and set <math>Q = \{i, o, u, a, e\}</math>  Represent the above information on the Venn diagram below.  <b>(3marks)</b></p> 		
(b)	List members of set $P \cup Q$ (1mk)	(c)	Find $n(Q - P)$ (2mks)

22 (a)	Add: $\begin{array}{r} 46893 \\ +37829 \\ \hline \hline \end{array}$ (1mk)	(b)	Work out: $318 \times 23$ (2 mks)
(c)	Work out: (2 mks) $\begin{array}{r} 13 \overline{) 3913} \end{array}$		
23	Study the figure below and answer questions that follow. 		
(a)	Find the perimeter of the figure. (2mks)		
(b)	Work out the area of the figure. (2mks)		
(c)	Show the lines of folding symmetry in the figure above. (2mks)		
24	Use the shopping bill below to answer questions that follow. <ul style="list-style-type: none"> <li>• 3kgs of rice at sh. 4000 per kilogram.</li> <li>• 2 bars of soap at sh. 3500 each bar.</li> <li>• 4 books at sh. 2000 per pair.</li> </ul>		
(a)	How much money was spent on all the above items? (4 mks)		

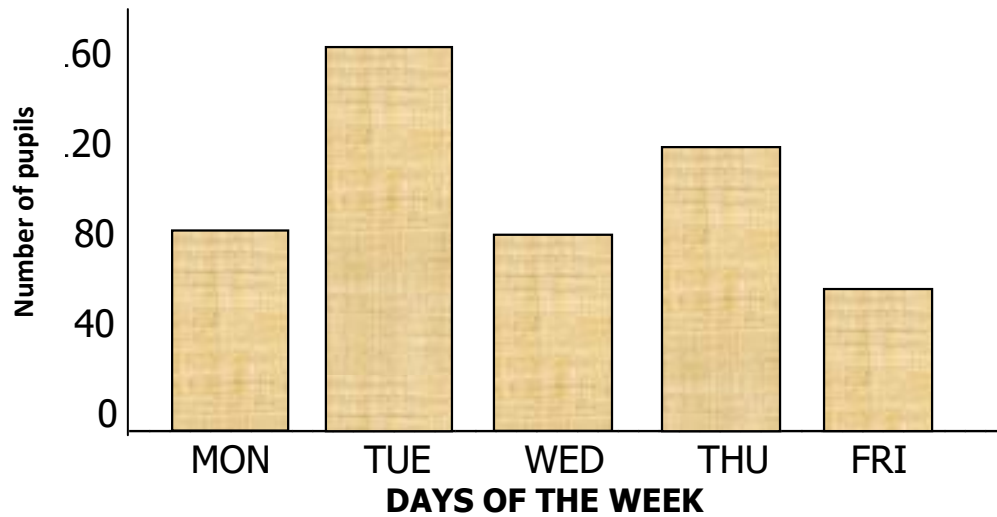
(b)	If one pays in a fifty- thousand shilling note, calculate the change that is given. (2 mks)
25	<p>Study the number line below and use it to answer questions that follow.</p>  <p>(a) Name the arrows marked;(3mks)  P=_____ Q= _____ R= _____</p> <p>(b) Write the mathematical statement for the above number line. (1 mk)</p>
26	<p>There are 30 pens in a box. <math>\frac{2}{3}</math> of them are blue and the rest are red.</p> <p>(a) Find the fraction of red pens? (2mks)</p> <p>(b) How many pens are blue? (2 mks)</p> <p>(c ) Find the probability of picking a red pen. (2 mks)</p>

27	<p>Find the size of the unknown angles. (3mks)</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>a)</p>  </div> <div style="text-align: center;"> <p>b)</p>  </div> </div>
28	<p>Given the digits 7, 3, 5, and 9, use these digits to;</p> <p>(a) Form the largest four-digit number. (1 mk)</p> <p>(b) Form the smallest four-digit number. (1 mk)</p> <p>(c) Find the sum of the largest and smallest number formed. (2 mks)</p>
29	<p>John was facing South. He turned anticlockwise through an angle of <math>45^\circ</math>. Find his new direction. (2mks)</p> <p>(a)</p> <p>(b) Measure the obtuse angle in the figure below. (1mk)</p> <div style="text-align: center; margin: 20px 0;">  </div> <p>(c) Work out the complement of <math>70^\circ</math> (2mks)</p>

30	Using a pair of compasses, ruler and pencil only, construct s regular hexagon of side 3cm. (4mks)
31	Given that $X = 4, Y = 6, \text{ and } W = 3$ , Find the value of :
(a)	$X + Y + W$ (2mks) (b) $(Y + X) - W$ (2mks)
(c)	$\frac{XWY}{2}$ (2mks)

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The graph below shows the attendance of P.5 pupils for a week. Use it to answer questions that follow.



- (a) Which two days had the same attendance? (1mks)
- (b) How many pupils were absent on Thursday? (2mrks)
- (c) Calculate the average attendance for the whole week. (2mks)