



ADM

NAME

CLASS

DATE

SCHOOL

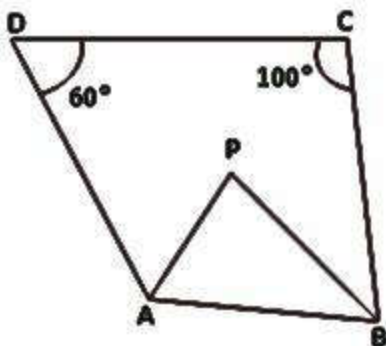
SCORE/.....

TEACHER'S COMMENT

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INSTRUCTIONS: Answer all the questions given below and clearly show your workings

1. In the figure below, the bisectors of $\angle DAB$ and $\angle ABC$ meet in a point P.
If $\angle DCB = 100$ and $\angle CDA = 60^\circ$, find the measure of $\angle APB$. [3 MARKS]



2. The interior angles of a quadrilateral are x , $2x$, $3x$, $4x$ in that order. Find the value of x in degrees. **[2 MARKS]**

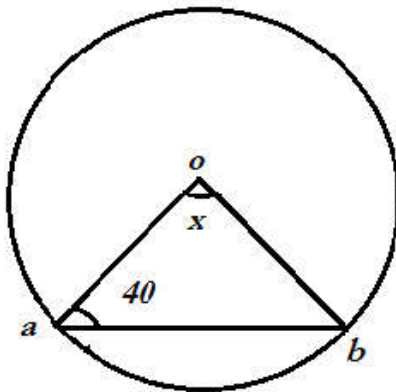
3. The interior angles of a pentagon are x , $3x$, $3x$, $4x$ and $4x$ in that order. Find the value of x in degrees. **[2 MARKS]**

4. The interior angle of a regular polygon is $6\frac{1}{2}$ times the exterior angle. How many sides have the polygon? **[3 MARKS]**

5. A regular polygon with $3x$ sides has interior angles 400 greater than that of one with x sides. What is x ? [3 MARKS]

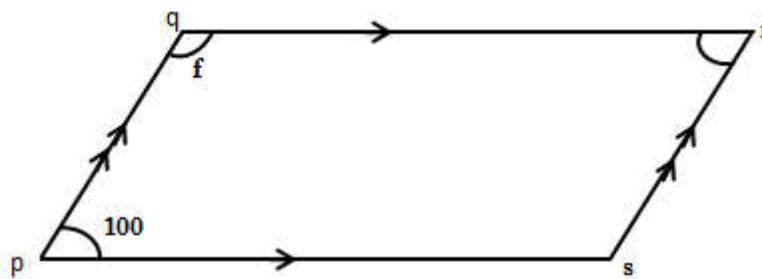
6. Work out the following angles: [2 MARKS]

a.



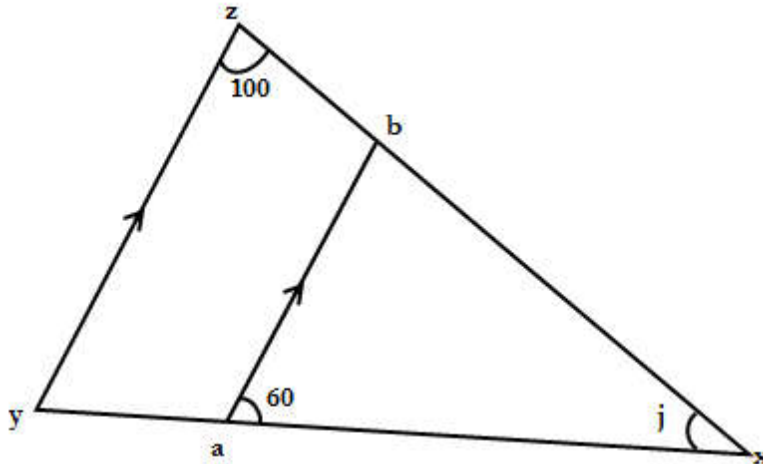
In the figure above, o is the centre of the circle. Find \hat{x}

b.



Find the value of f in the figure above [2 MARKS]

c.



Find the value of j in the figure above [2 MARKS]

7. Use the graph provided to answer the following questions

The table below shows the volume of a gas at various temperatures when heated from 0°C .

Temperature $^{\circ}\text{C}$	20	40	60	80	100
Volume (litres)	1.82	1.95	2.07	2.20	2.35

a. Using a suitable scale, draw a graph of volume against temperature. [1 MARKS]

b. Use your graph to find;

i. The initial volume of gas [1 MARK]

ii. The volume of gas when the temperature is 44°C and 70°C [1 MARKS]

iii. The temperature of the gas when the volume is 1.8 litres and when it is 2.1 litres.

[1 MARKS]

8. Electricity cost consists of a standing charge and an additional amount which depends on the number of watts used. The table below shows the amount payable for various numbers of watts used.

Number of Watts (W)	10	20	30	40	50	60
Amount (Shs)	90	110	130	150	170	190

a. Choose a suitable scale and draw a graph of amount paid against the number of watts (W) used. [1 MARKS]

b. Use your graph to find;

a. The payment for consumptions of 47 watts and 43 watts [1 MARK]

b. The consumptions for payments of Sh. 70 and Sh. 175. [1 MARK]

c. The standing charge. [1 MARKS]