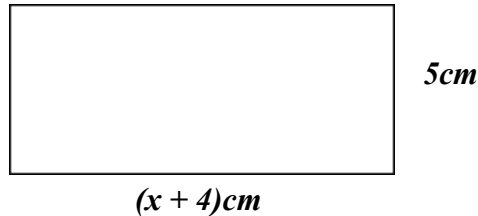
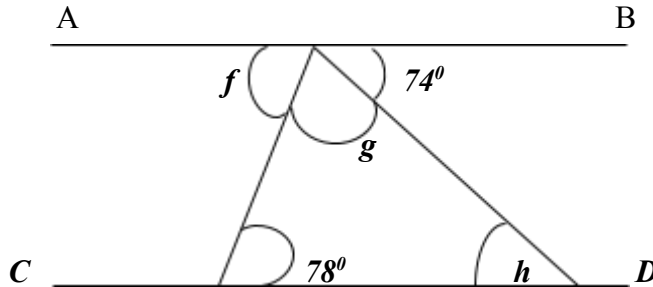


MOCK SAMPLE SECTION B

1. a. If the area of the figure below is 60cm^2 . Find
 i. the value of x .
 ii. hence determine the perimeter of the figure.



- b. i. Find the truth set of the inequality
 $\frac{1}{2}(y - 1) > \frac{1}{5}(2 + y)$ where y is a real number
 ii. Illustrate your answer in question **(b) i.** on a number line.
- c. Find the sizes of the marked angles in the diagram below if AB is parallel to CD .



2. The ages (in year) of twenty children who were treated in a clinic on a particular day were recorded as follows.

4	1	2	5	1	1	2	5	3	5
5	1	3	2	4	1	5	4	1	2

- a. Make a frequency table for the data.
- b. Find i. modal age ii. median age iii. mean age
- c. Draw a bar chart for the data.
3. a. A price of a calculator cost GH¢ 50.00. What will be the new price, if it is increased by 50% ?
- b. Simon had GH¢565,000 in his account, he withdrew GH¢150,500 and GH¢226,300.00. How much is left in his account.

c. Solve the inequality $2x - 1\frac{1}{2} \geq 5x - 6$.

4 a. Copy and complete the table below using the relation

$$F + V - 2 = E.$$

Name of Solid	No. of faces	No. of edges	No. of vertices
i. Cylinder		1	
ii. Cuboid	6		
iii. Triangular Prism			6
iv. Triangular Pyramid			4
v. Square Pyramid	5		

b. The marks obtained by 10 children in a test are 0,1,3,3,5,7,8,9,9,9. What is the probability that a child chosen at random scored;

i) 3 marks

ii) greater than 3 marks

iii) less than 5 marks

5) a. Using a ruler and a pair of compasses only, construct triangle ABC such that $|AB| = 6\text{cm}$, $|BC| = 5\text{cm}$, and $|AC| = 8\text{cm}$.

b. Construct the mediator, L1, of line BC and the mediator, L2, of line AC such that both L1 and L2 meet at O.

c. With centre O and radius OA, construct a circle. Measure $|OA|$.

d. Calculate the area of the circle drawn leaving your answer correct to 3 significant figures.

(Take $\pi = 22/7$)