

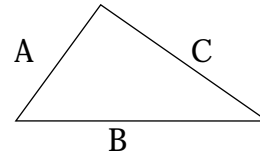
Heron's Formula

Use Heron's formula to find the area of a triangle when the sides (A,B,C) of the triangle are known.

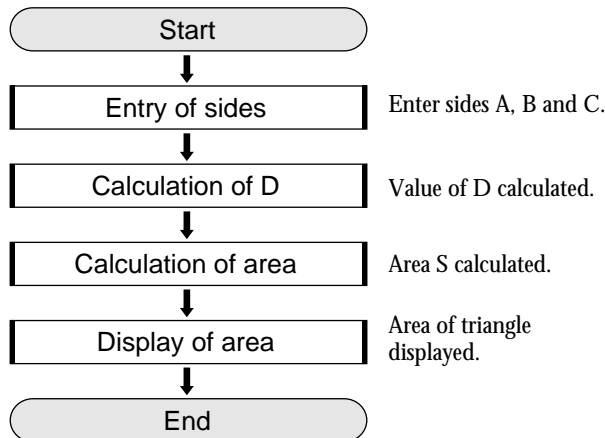
Calculation

$$S = \sqrt{D (D - A) (D - B) (D - C)}$$

$$D = \frac{(A + B + C)}{2}$$



FLOWCHART



PROGRAMME LIST (REAL MODE)

Title : HERON

Print "Input LENGTH
 Input A
 Input B
 Input C
 $(A+B+C)/2 \Rightarrow D$
 $\sqrt{(D (D-A) (D-B) (D-C))} \Rightarrow S$
 Print "S =
 Print S
 End

PARAMETERS

Name of parameter	Content	Name of parameter	Content
A	value of side A	D	value of D
B	value of side B	S	area
C	value of side C		

Exercise

Find the area of a triangle when sides A, B and C are 20, 35 and 40cm respectively.

Step

Key Operation

Display

- Specify the programme mode.
 Select the title HERON.

PRGM A
- Enter the values A, B and C.

2 0 ENTER 3 5 ENTER 4 0 ENTER

(Display of area)
- The area is approximately 350cm².