TOPIC – **MENSURATION***(Perimeter and Area)*
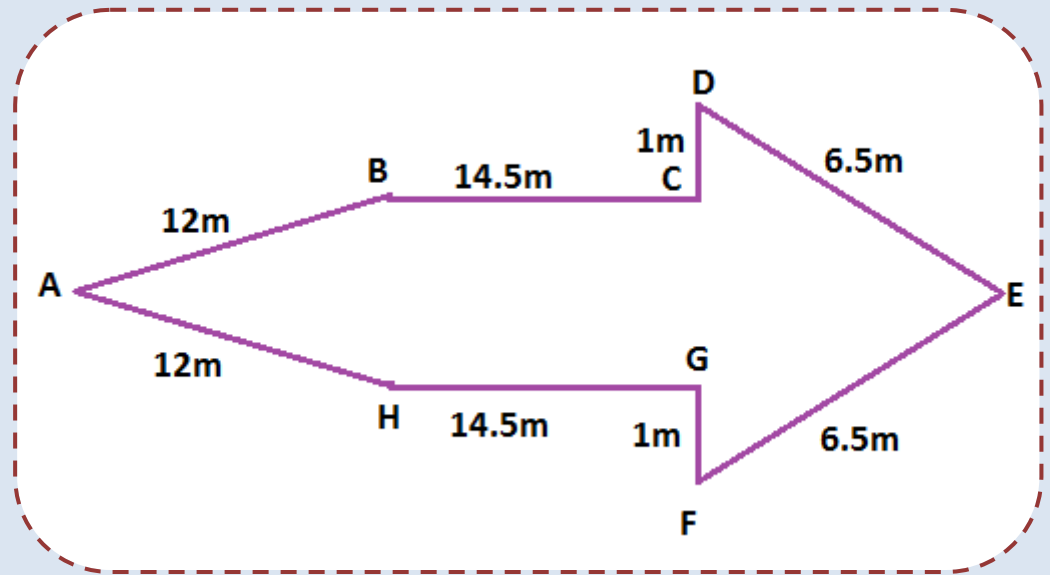
1. Find perimeter of following figure?

2. Two sides of a triangle are 12cm and 14 cm. The perimeter of the triangle is 36 cm. What is the length of the third side?

3. An athlete takes 6 rounds of a rectangular park, 35m long and 27m wide. Find the total distance covered by him?

4. Sweety runs around a square park of side 75m. Bulbul runs around a rectangular park of length 60m and breadth 45m. Who covers less distance?

5. By splitting the following figure into rectangles, find its area. (*The measures are given in centimetres*)
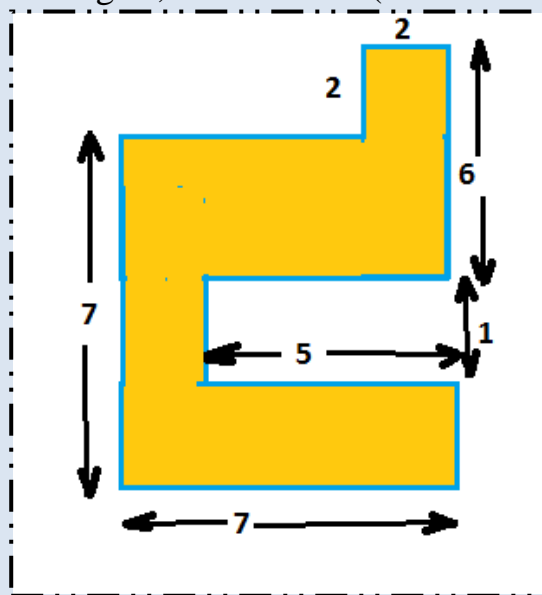
6. The area of a rectangular garden 60m long is 300 sq. m. Find the width of the garden?

7. The area of rectangle is 650 sq. Cm and one of its sides is 13 cm. Find the perimeter of the rectangle?

8. Area of a square field is 169 sq. m. Find its perimeter?

9. The perimeter of a square field is 64m. Find its area?

10. The total cost of flooring a room at Rs. 9.50 per square metre is Rs. 760. If the length of the room is 10 m, find its breadth?

11. Match the following units of area and their relations:

1.	100 sq. mm	a	1 sq.m
2.	100 sq. cm	b	1 sq. dm
3.	100 sq. dm	c	1. sq. cm.
4.	10000 sq. cm.	d	1 hectare
5.	100 sq. m	e	1 sq.m
6.	100 ares	f	1 sq. km.
7.	100 hectares	g	1 are

TOPIC: PARTS OF A CIRCLE

12 From the adjacent figure, name
  (i) secant
  (ii) chord
  (iii) minor arc
  (iv) major arc
  (v) radius
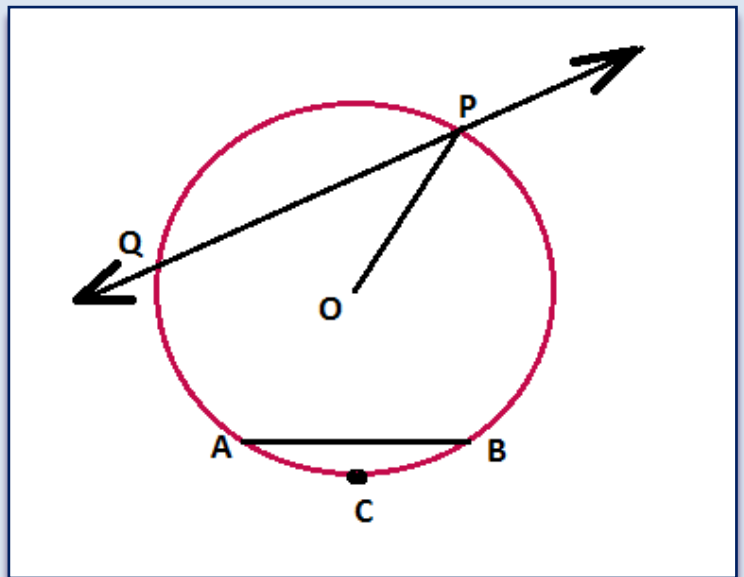
FUN WITH MATHS:

PALINDROMIC NUMBERS

A palindrome is a word, phrase, or number that can be read the same way backwards or forwards. Some examples of Palindromic numbers are 11, 121, 666, and 45354.

Any positive integer can be made into a palindrome in a finite number of steps

by following a simple procedure. In this procedure, reverse the digits of the original number and add the two numbers together. If the sum is a palindrome, the process ends; if not, the process is repeated until a palindrome is produced. For example, 138 is not a palindrome, but it can produce a palindrome in one step. Take 138, reverse the digits to get 831, and then add them together to get $138 + 831 = 969$, a palindrome.

Similarly, is 168 a palindrome? No, so reverse the digits to get 861, and then add them together to get 1029, still not a palindrome. So, repeat the process, reversing the digits and adding: $1029 + 9201 = 10230$, still not a palindrome. So, repeat the process: $10230 + 03201 = 13431$, a palindrome in three steps!

FACT:
'Mathematicians have found numbers which have not produced palindromes, even after thousands of steps. One example is the number
196,
which has been taken to hundreds of thousands of steps by computers without producing a palindrome.'

EXERCISE FOR YOU : Now use this process to record the number of steps and the palindrome produced for each of the numbers in the table below:

Number	Number of steps	Pallindrome
138	1	969
168	3	13431
68		
728		
97		
472		
835		
988		
561		
193		
553		
86		
918		
192		
364		
829		
89		

☙ BEST OF LUCK ❧