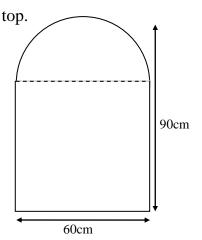
## Calculating the circumference and area of a circle

- ➤ In this exercise, answers should be given correct to one decimal place where necessary.
- $\triangleright$  Use  $\pi = 3.14$  in all calculations.
- 1. Find the circumference of a circle with a diameter of 24cm. [2]
- A window is in the shape of a rectangle with a semi-circle on top. The total height of the window is 90cm and the total width is 60cm.
  - (a) Calculate the area of glass needed to glaze the window. [5]

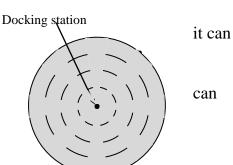
A rubber gasket forms a seal between the glass and the window frame.

(b) Calculate the length of the gasket. [3]

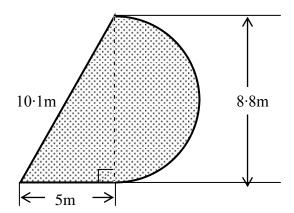


**3.** A wireless telephone has a range of 50m. This means that receive and transmit calls up to 50m from its docking

Calculate the area in which it receive and transmit calls. [2]



4. The patio area of my garden is shaped as shown in the diagram. It is in the snape of a semi – circle and a right angled triangle.



- (a) Calculate the area of the patio.
- **(b)** Calculate the perimeter of the patio.

[5]

[4]

[21 marks]