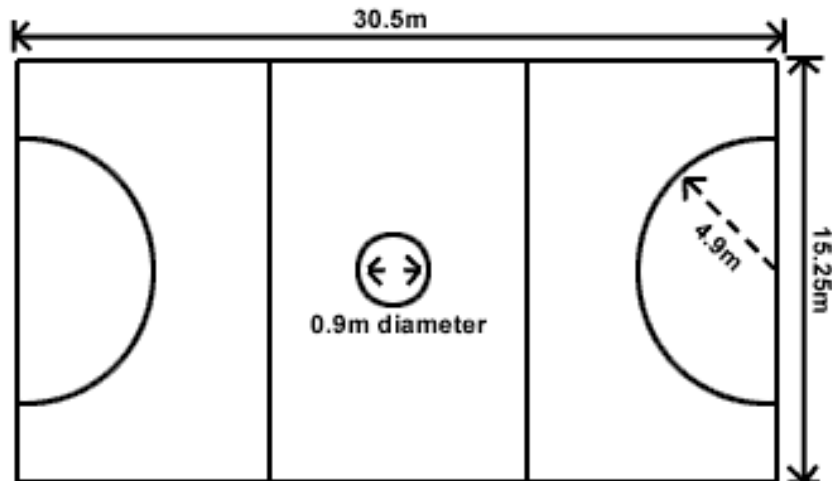


AREA OF A CIRCLE

APPLICATIONS

NETBALL COURT AREAS



In netball, each team is composed of seven players with the following positions and functions:

GOAL SHOOTER (GS) - This player must get past the Goal Keeper of the other team. He or she can move within the "attacking" goal third, including the shooting semi-circle.

GOAL ATTACK (GA) - This player acts as the "goal defender" and can move within and across the "attacking" goal third, shooting semi-circle, and centre third areas.

WING ATTACK (WA) - This player functions as the "wing defence" and can move within and across the "attacking" goal third and centre third, but not in the shooting semi-circle.

CENTRE (C) - This player can move in all areas except the shooting semi-circles.

WING DEFENCE (WD) – Same as WA

GOAL DEFENCE (GD) – Same as GA

GOAL KEEPER (GK) – Same as GS

- Q1. Calculate the total area (in m^2) of:
- (a) the rectangular court
 - (b) each third
 - (c) the centre circle
 - (d) the shooting semi-circle at each end.

Q2. Calculate the area (in m^2) in which each player is permitted to move.



ANSWERS

Q1. (a) 465.13

(b) 155.04

(c) 0.64

(d) 37.7

Q2. GS, GK = 155.04

GA, GD = 310.08

WA, WD = 272.38

C = 389.73