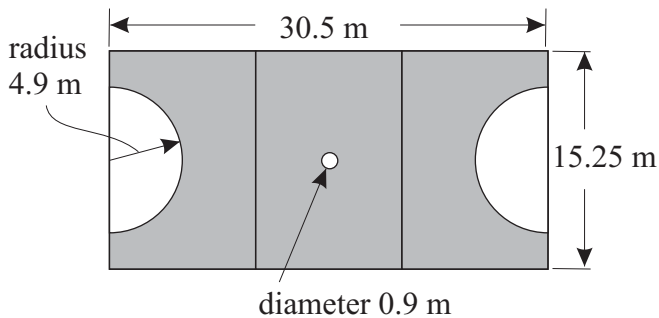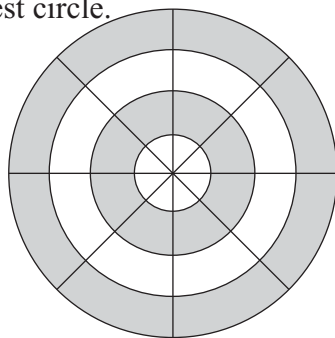*Name*: _____

1. A *square* room has a perimeter of 15.2 m. What is the length of each wall in the room?

2. The dimensions of a netball court are shown below. All the lines are shown.

radius 4.9 m

30.5 m

15.25 m

diameter 0.9 m

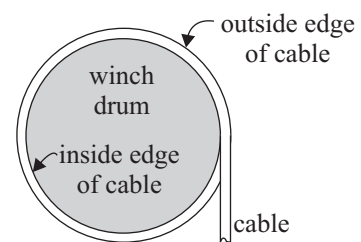What is the total length of all the lines on a netball court? Give answer correct to one decimal place.

3. The diagram below is of a dart board. The centre circle is to have a diameter of 10 cm.
Each circle is to have a diameter 10 cm larger than the next smallest circle.
The dart board is to be divided into 8 equal sections.
All the lines are to be made of wire.
What is the total length of wire needed?
Give answer in *cm* correct to one decimal place.

4. Alex used a piece of string wrapped around a tree to find its circumference. He measured a tree's circumference to be 4.474 m.
(a) Use this measurement to find the diameter of the tree. Give answer to the nearest *mm*.

(b) There is a growth ring for each year of a tree's age. If the growth rings are 2 mm wide, find the age of the tree.

5. When a cable is wrapped around a winch drum, the outside edge of the cable is longer than the edge closer to the drum of the winch.

outside edge of cable

winch drum

inside edge of cable

cable

Find the difference in length, to the nearest *mm*, between the inside and outside edges of a cable 10 mm in diameter that is wrapped around a winch drum of 75 cm diameter.