# 4. Practical Geometry

## Exercise 4.1

### 1 A. Question

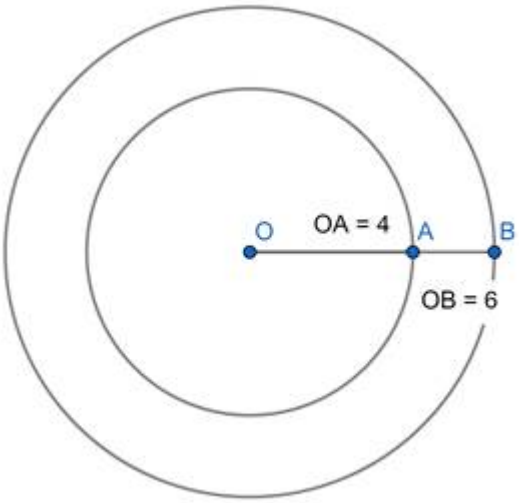
Draw concentric circles for the following measurements of radii. Find out the width of each circular ring.

4 cm and 6 cm.

### Answer

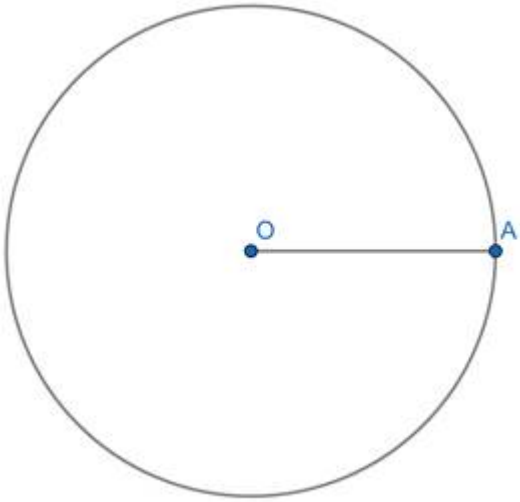
4cm and 6cmSteps of construction:

Step 1: Draw a rough image and mark the given measurement.

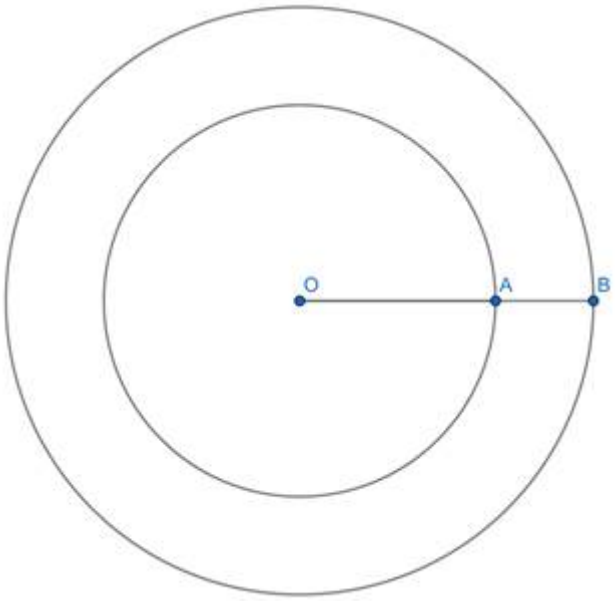



Step 2: Take any point O and mark its as centre.


Step 3: With O as centre, draw a circle of radius OA = 4cm.




Step 4: With O as centre, draw a circle of radius OB = 6cm.




Thus, the concentric circle $C_1$ and $C_2$ are drawn.

Width of the circular ring = OB – OA

= 6 – 4

= 2cm

**1 B. Question**

Draw concentric circles for the following measurements of radii. Find out the width of each circular ring.

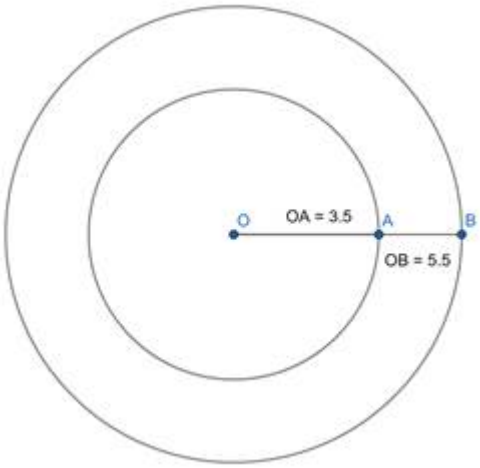
3.5 cm and 5.5 cm.

**Answer**

3.5 cm and 5.5 cm

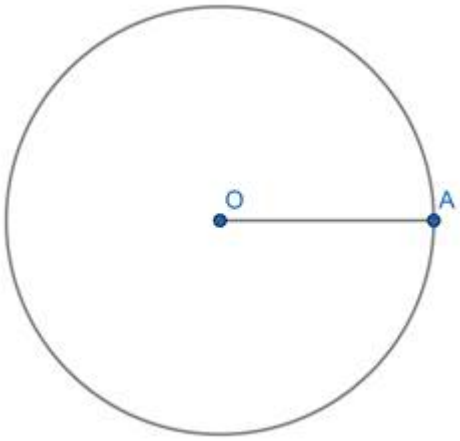
Steps of construction:

Step 1: Draw a rough image and mark the given measurement.

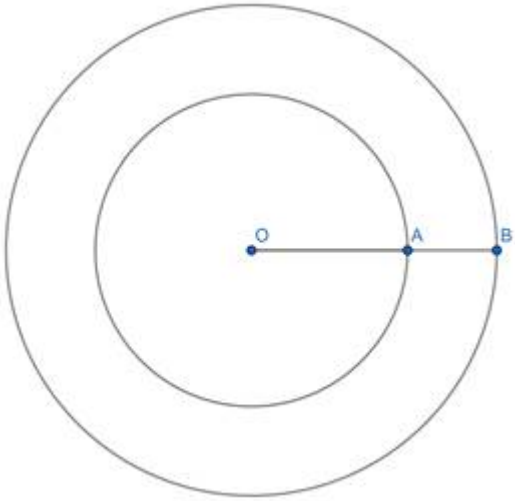



Step 2: Take any point O and mark it's as centre.


Step 3: With O as centre, draw a circle of radius OA = 3.5 cm.




Step 4: With O as centre, draw a circle of radius OB = 5.5 cm.




Thus, the concentric circle C1 and C2 are drawn.

Width of the circular ring = OB – OA

= 5.5 – 3.5

= 2cm

**1 C. Question**

Draw concentric circles for the following measurements of radii. Find out the width of each circular ring.

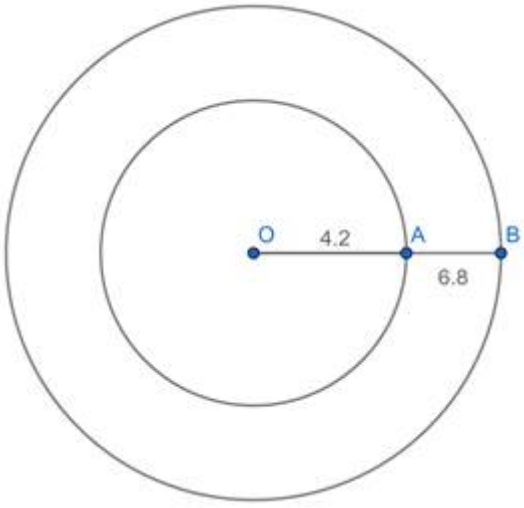
4.2 cm and 6.8 cm.

**Answer**

4.2 cm and 6.8 cm

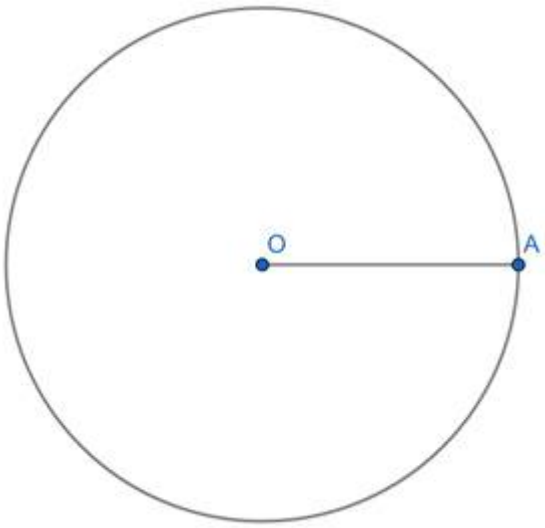
Steps of construction:

Step 1: Draw a rough image and mark the given measurement.

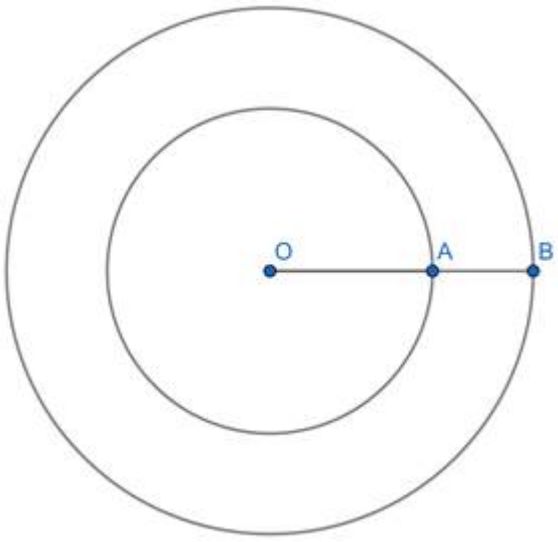



Step 2: Take any point O and mark it's as centre.


Step 3: With O as centre, draw a circle of radius OA = 4.2 cm.




Step 4: With O as centre, draw a circle of radius OA = 6.8 cm.




Thus, the concentric circle C1 and C2 are drawn.

Width of the circular ring = OB – OA

= 6.8 – 4.2

= 2.6 cm

**1 D. Question**

Draw concentric circles for the following measurements of radii. Find out the width of each circular ring.

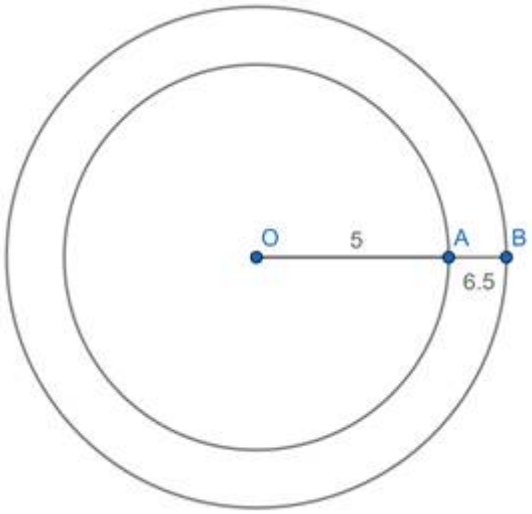
5 cm and 6.5 cm.

**Answer**

5cm and 6.5cm

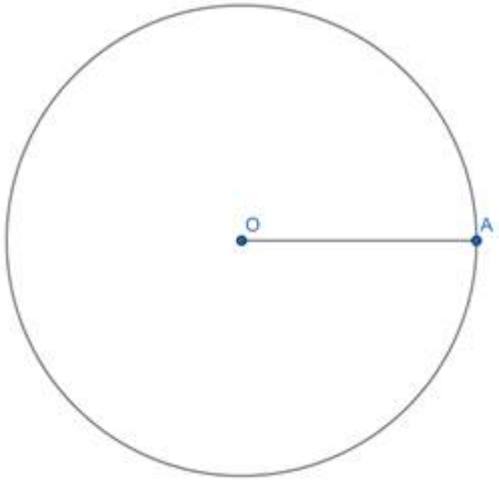
Steps of construction:

Step 1: Draw a rough image and mark the given measurement.

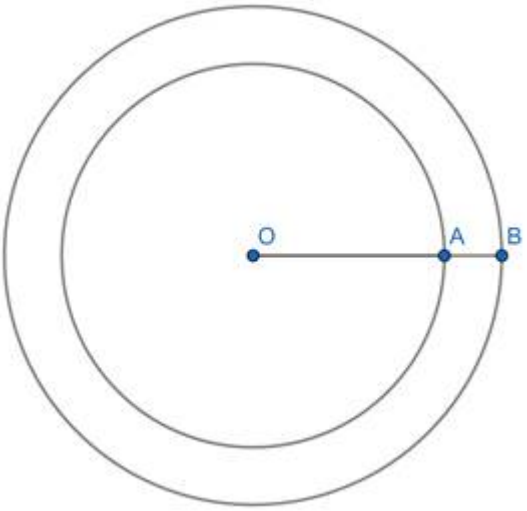



Step 2: Take any point O and mark it's as centre.


Step 3: With O as centre, draw a circle of radius OA = 5cm.



Step 4: With O as centre, draw a circle of radius OA = 6.5cm.




Thus, the concentric circle $C_1$ and $C_2$ are drawn.

Width of the circular ring = OB – OA

= 6.5 – 5

= 1.5 cm

**1 E. Question**

Draw concentric circles for the following measurements of radii. Find out the width of each circular ring.

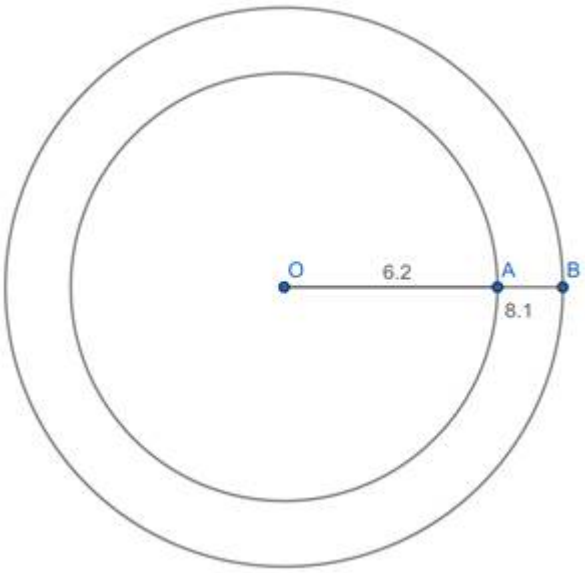
6.2 cm and 8.1 cm.

**Answer**

6.2 cm and 8.1 cm

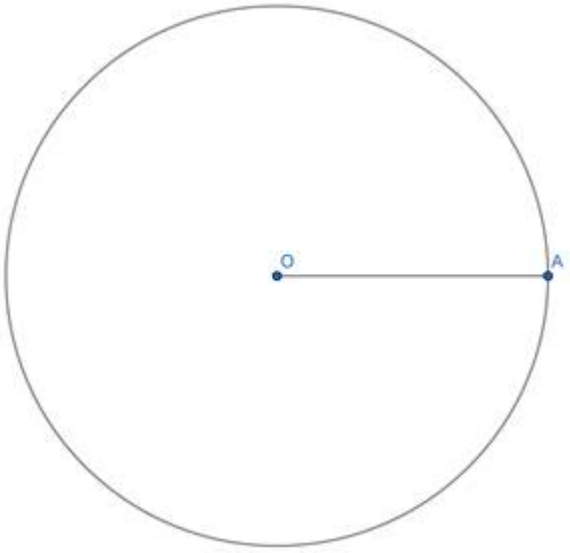
Steps of construction:

Step 1: Draw a rough image and mark the given measurement.

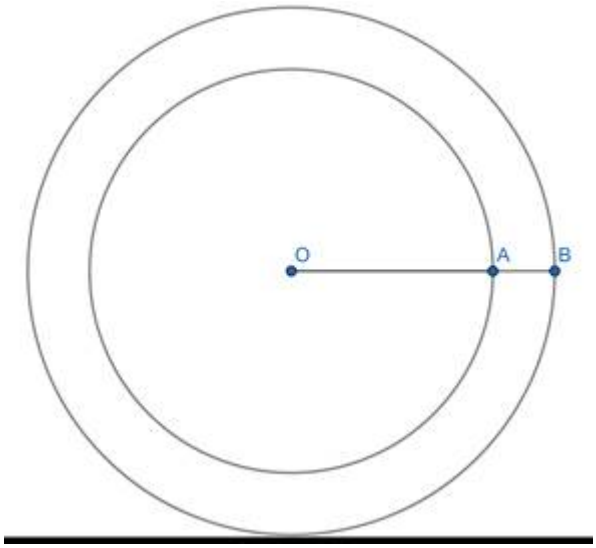



Step 2: Take any point O and mark it's as centre.


Step 3: With O as centre, draw a circle of radius OA = 6.2cm.




Step 4: With O as centre, draw a circle of radius OA = 8.1cm.




Thus, the concentric circle $C_1$ and $C_2$ are drawn.

Width of the circular ring = OB – OA

= 8.1 – 6.2

= 1.9

**1 F. Question**

Draw concentric circles for the following measurements of radii. Find out the width of each circular ring.

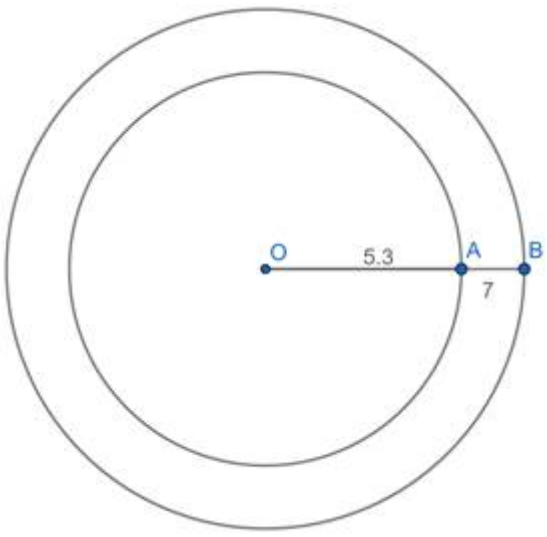
5.3 cm and 7 cm.

**Answer**

5.3 cm and 7cm

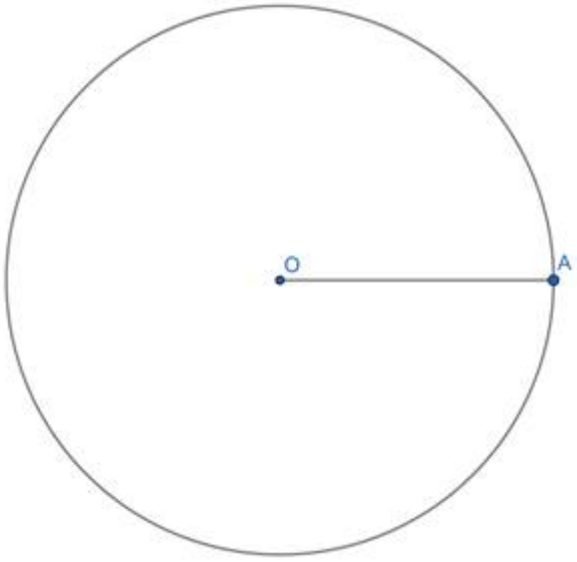
<u>Steps of construction:</u>

Step 1: Draw a rough image and mark the given measurement.

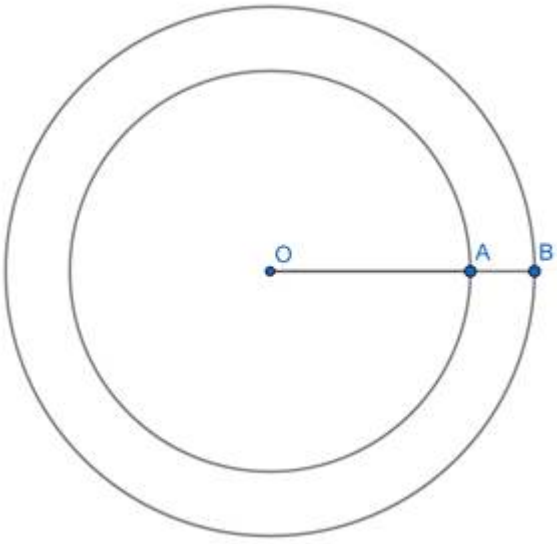



Step 2: Take any point O and mark it's as centre.


Step 3: With O as centre, draw a circle of radius OA = 5.3cm.




Step 4: With O as centre, draw a circle of radius OA = 7cm.




Thus, the concentric circle $C_1$ and $C_2$ are drawn.

Width of the circular ring = OB – OA

= 7 – 5.3

= 1.7 cm