

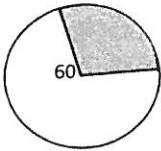
Name: _____

Date _____

Topic : Area of Sector and Segment - Worksheet 2

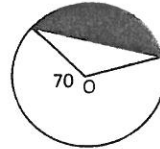
Do the following:

1.



Find the area of shaded sector shown in fig. The radius of the circle is 60 units and the length of the arc measures 150 units

2.



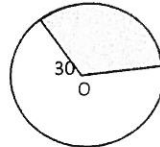
Find the area of a segment of a circle if the central angle of the segment is 105° and the radius is 70

3.



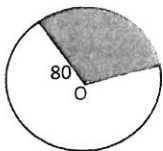
There are 3 equal segments in semi circle O. If the radius of circle is 50. What is the area of each segment?

4.



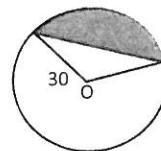
Find the area of shaded sector shown in fig. The radius of the circle is 30 units and the length of the arc measures 60 units

5.



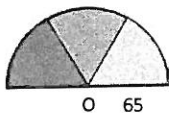
Find the area of the shaded sector of circle O. The radius is 80 inches and the central angle is 106° .

6.



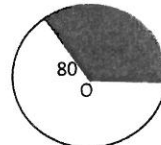
Find the area of a segment of a circle if the central angle of the segment is 115° and the radius is 30.

7.



There are 3 equal segments in semi circle O. If the radius of circle is 65. What is the area of each segment?

8.



Find the area of the shaded sector of circle O. The radius is 80 inches and the central angle is 160° .



$$\text{Percent of Circle} = \frac{\text{Central angle}}{360} = \frac{\text{arc}}{\text{circumference}} = \frac{\text{sector}}{\text{area}}$$

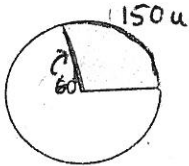
Name: Answer key

Date _____

Topic : Area of Sector and Segment - Worksheet 2

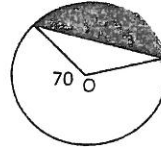
Do the following:

1. Find the area of shaded sector shown in fig. The radius of the circle is 60 units and the length of the arc measures 150 units



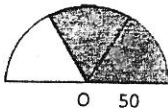
$$4500 u^2$$

2. Find the area of a segment of a circle if the central angle of the segment is 105° and the radius is 70



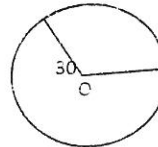
$$\approx 2123.34 u^2$$

3. There are 3 equal segments in semi circle O. If the radius of circle is 50. What is the area of each segment?



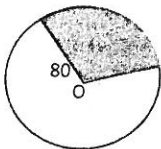
$$= \frac{1250\pi}{3} \approx 1308.997 u^2$$

4. Find the area of shaded sector shown in fig. The radius of the circle is 30 units and the length of the arc measures 60 units



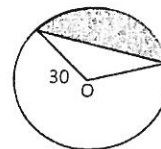
$$900 u^2$$

5. Find the area of the shaded sector of circle O. The radius is 80 inches and the central angle is 106° .



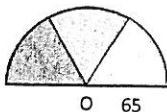
$$5920.16 u^2$$

6. Find the area of a segment of a circle if the central angle of the segment is 115° and the radius is 30.



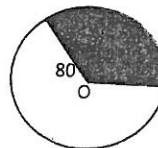
$$495.37 u^2$$

7. There are 3 equal segments in semi circle O. If the radius of circle is 65. What is the area of each segment?



$$2212.2048 u^2$$

8. Find the area of the shaded sector of circle O. The radius is 80 inches and the central angle is 160° .



$$8936.0857 u^2$$

