## Main Ideas/ Questions

Area

## Notes

Area - The total $\qquad$ INSIDE a figure.

Formula:

$$
r=
$$

## Examples

Find the area in terms of pi and a decimal rounded to the tenths.
1)

2)

3)

4) diameter $=22 \mathrm{~km}$

Find the radius using the given area.
7. Area $=81 \pi \mathrm{in}^{2}$
8) area $=444.9 \mathrm{~cm}^{2}$
9) A circle has a area of $24 \pi f t^{2}$ What is the length of the diameter?
$\qquad$

## Main Ideas/

 QuestionsSector Area
Characteristics

## Notes

Sector Area - The area of a $\qquad$ of the whole circle

## Funny way to remember:

 Sector Area = Pie $\qquad$

## Formula:

$$
\frac{\text { Sector Area }}{\text { Area }\left(\pi r^{2}\right)}=\frac{\text { Central Angle }(\theta)}{\text { Whole Circle in degrees }\left(360^{\circ}\right)}
$$

## Examples

## Find the sector area of the wanted sector.

1) 


2)


Find the angle of the given sector.
3)

4)

$\qquad$

## Main Ideas/ Questions

Examples

Find the radius of the given sector.
5)

6)

7) A circle has an arc whose measure is $80^{\circ}$ and whose area is $88 \pi$. What is the diameter of the circle?
8) The area of a circle is $36 \pi f t^{2}$. Find the area of the sector that has a central angle of $70^{\circ}$.
9) A windshield wiper is 24 inches long. In one sweep, it covers $628.32 \mathrm{in}^{2}$. What is the angle of the windshield wiper?
10) A clock is at 7 o'clock. If the radius of the hour hand is 5 inches long, what is the area that the hour hand has covered?

