$\qquad$
$\qquad$

## Circles: Basic Properties of Circles

$\mathrm{Pi}(\pi)$ is a number whose value is described by the relationship between the circumference and diameter of a circle: $\pi=c / d$. From this relationship, we can find both circumference and diameter:

Circumference: $\quad C=\pi d$, or $C=2 \pi r$
Diameter: $\quad d=c / \pi$
To find the area of a circle, use the formula $A=\pi r^{2}$.

Example:

$$
\begin{aligned}
& \text { Area } \\
& A=\pi r^{2} \\
& A=\pi(5)^{2} \\
& =\pi(25) \\
& =3.14(25) \\
& =78.5
\end{aligned}
$$



$$
\begin{gathered}
\text { Circumference } \\
\hline C=2 \pi r \\
=2 \pi(5) \\
=10 \pi \\
=10(3.14) \\
=31.4
\end{gathered}
$$

Practice. Find the circumference and area of the following figures.

1. $r=1.4$
$C=$
$A=$
2. $r=5.2$
$C=$
$A=$
3. $\mathrm{r}=2.8$
$C=$
$A=$
4. $r=4.3$
$C=$
$A=$
5. $r=3.7$
$C=$
$A=$
6. $r=4$
$C=$
$A=$
7. $r=3.6$
$C=$
$A=$
8. $r=6.28$
$C=$
$A=$
9. $r=8$
$C=$
$A=$
10. $r=1.8$
$C=$
$A=$

Name: $\qquad$

## Circle: Basic Properties of Circles

1. $8.70 ; 6.15$
2. 25.12; 50.24
3. 32.66; 84.91
4. 22.61; 40.69
5. 17.58; 24.62
6. 39.44; 123.84
7. 27: 58.06
8. 50.24; 200.96
9. 23.24; 42.99
10. 11.30; 10.17
