## Estimating Circumference and Area

Instructions: A good way to quickly estimate the circumference and area of a circle is to round Pi off to the whole number ' 3 ' (instead of using two decimal digits like 3.14). Use $\mathrm{Pi}=3$ to estimate the circumference and area of each of the circles below.

1

$C=\pi \times d \quad A=\pi \times r^{2}$
$C=3 \times 10 \quad A=3 \times(5 \times 5)$

$A=75 \mathrm{~m}^{2}$

3


5


2


4


6


## Date:

## Calculating Circumference

Instructions: Use the formula you learned in the video to calculate the circumference of each circle below. Use $\mathrm{Pi}=3.14$ and round your answers to two decimal places. You can use a calculator. (Note: Sometimes the problem gives you the radius, but sometimes it gives you the diameter.)

1


2


3


5


7


6


8


## Date:

## Calculating Area

Instructions: Use the formula you learned in the video to calculate the area of each circle below. Use $\mathrm{Pi}=3.14$ and round your answers to two decimal places. You can use a calculator. (Note: Sometimes the problem gives you the radius, but sometimes it gives you the diameter.)

1

2


3

4

5

6


7

8


## Calculating Circumference and Area

Instructions: For the following problems, use $\mathrm{Pi}=3.14$ You may use a calculator. If necessary, round your answers to two decimal places.

1 A circle has a radius of 1.5 meters. Find its circumference and area.

A circle has a diameter of 40 miles. Find its circumference and area.

5 A circle has a diameter of 16 inches. Find its circumference and area.

2 A circle has a diameter of 26 feet. Find its circumference and area.

4 A circle has a radius of 3.5 centimeters. Find its circumference and area.

6 A circle has a radius of 0.3 meters.
Find its circumference and area.

## Date:

## Circumference and Area - Word Problems

Instructions: For the following problems, use $\mathrm{Pi}=3.14$. You may use a calculator. If necessary, round your answers to two decimal places.

1 A bicycle tire has a radius of 14 inches. What is the circumference of the tire?


3 A Ferris-Wheel at an amusement park has a diameter of 40 feet. How far would you travel in one revolution? (In other words, find the circumference.)


5 Which has the greatest surface area: two pizzas that have 14 inch diameters or one pizza that has a 20 inch diameter?


