Name: ..... Class: .....

Circles: word problems.

1. After measuring the circular vase, Mary calculates that it has a diameter of 24 cm. What is the vase's radius? Take pie to be 3.14.

2. At the local fair, Ethel decided to go on the ferris wheel. The diameter of the wheel was 80 feet. What is the area of the wheel? $\pi = 3.14$.

3. Fabrice measured the radius of a cycle wheel to be 35 cm. Find the circumference of the cycle wheel. Take $\pi = 3.14$.

4. Mr. Brown is walking around the pond at the park. If the pond is circular with a diameter of 7 miles, what is the area of the pond? Write you answer to the nearest whole number. Use $\pi = 3.14$.

5. Last week, Mary measured the diameter of a cart wheel to be 10 meters. Find the radius and the area of the cart wheel.
Use $\pi = 3.14$.

6. So, after making a rough measurement of the circular swimming pool, Rita estimated that it has a radius of about 8 meters. What is the diameter and area fo the pool? Write your answer to the nearest tenth.
Use $\pi = 3.14$.

7. If the diameter of a pizza is 16 inches, find the area of the pizza.
Use $\pi = 3.14$.

Solution

Name: ..... Class: .....

Circles: word problems.

1. After measuring the circular vase, Mary calculates that it has a diameter of 24 cm. What is the vase's radius? Take pie to be 3.14.

Diameter of a circle = 2r
Radius of circle = d/2
But diameter of the circular vase = 24 cm
Therefore the radius (r) = 24/2 = 12 cm.

So, the radius of the cicular vase is 12 cm.

2. So, the area of the wheel is 5,024 square feet.

3. So, the circumference of the cycle wheel is 219.8 cm.

4. So, the area of the pond is 38 square miles.

5. So, the radius of the cart wheel is 5 meters and the area of the cart wheel is 78.5 square meters.

6. So, the diameter of the pool is 16.0 meters and the area of the pool is 201.0 square meters.

7. So, the area of the pizza is 200.96 square inches.