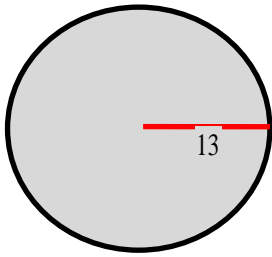


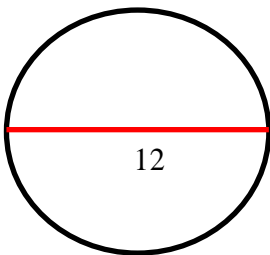
Area of Circles Bell Work

Find the area of the following circles.

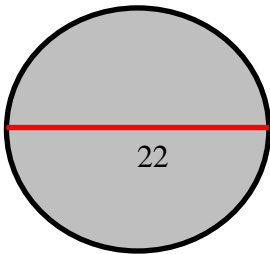
1.



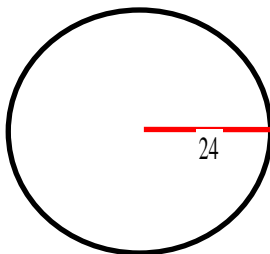
2.



3.



4.



Area of Circles Bell Work

Complete the table below. Find the area, diameter or radius.

	Diameter	Radius	Area
5.	20m	10m	
6.		6cm	
7.	36cm		
8.			784π

Solve problem involving circles.

9. The radius of a circle 34 cm. Find the area of the circle.

Name: _____ Period: _____ Date: _____

Area of Circles Bell Work

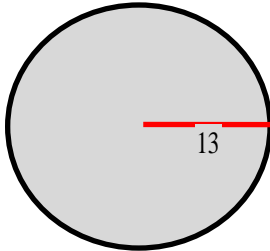
10. The area of a circle 2827.43 cm^2 . Find its diameter.

Area of Circles Bell Work

Answer:

Find the area of the following circles.

1.



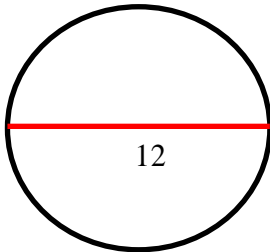
Solution:

$$A = \pi r^2$$

$$A = \pi 13^2$$

$$A = 169\pi$$

2.



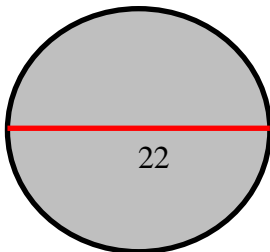
Solution:

$$A = \frac{\pi d^2}{4}$$

$$A = \frac{\pi 12^2}{4}$$

$$A = 36\pi$$

3.



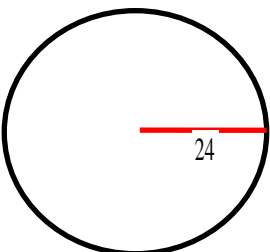
Solution:

$$A = \frac{\pi d^2}{4}$$

$$A = \frac{\pi 22^2}{4}$$

$$A = 121\pi$$

4.



Solution:

$$A = \pi r^2$$

$$A = \pi 24^2$$

$$A = 576\pi$$

Area of Circles Bell Work

Complete the table below. Find the area, diameter or radius.

	Diameter	Radius	Area
5.	20m	10m	100π
6.	12cm	6cm	36π
7.	36cm	18cm	324π
8.	56cm	28cm	784π

Solve problem involving circles.

9. The radius of a circle 34 cm. Find the area of the circle.

Solution:

$$A = \pi r^2$$

$$A = \pi 34^2$$

$$A = 1156\pi \text{ or } 3631.68 \text{ cm}^2$$

10. The area of a circle 2827.43 cm^2 . Find its diameter.

Solution:

$$A = \frac{\pi d^2}{4}$$

$$2827.43 = \frac{\pi d^2}{4}$$

$$2827.43(4) = \pi d^2$$

$$\frac{11309.72}{\pi} = d^2$$

$$3599.99 = d^2$$

$$d = 59.99 \text{ or } 60 \text{ cm}$$