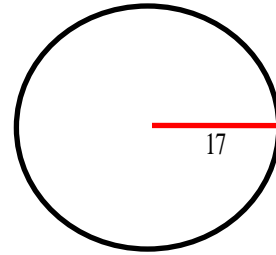
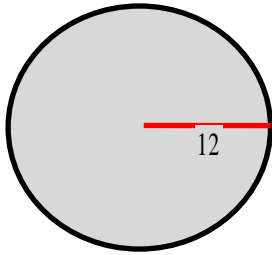


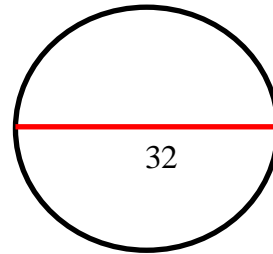
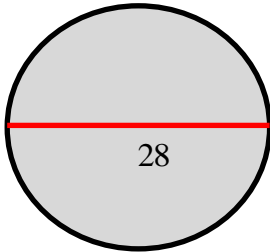
Area of Circles Assignment

Find the area of the following circle.

1. $A = \pi r^2$ 2.



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



Area of Circles Assignment

Complete the table below. Find the area or the radius of the following circles.

	Radius	Area
5.	5	
6.		9π
7.	16m	
8.		$289\pi\text{cm}^2$
9.	25cm	

Complete the table below. Find the area or the diameter of the following circles.

	Diameter	Area
10.	18	
11.		54π
12.	26m	
13.		$250\pi\text{cm}^2$
14.	30cm	

Name: _____ Period: _____ Date: _____

Area of Circles Assignment

Solve Problem involving circles.

15. The area of a circle is 121π . Find its diameter.

16. The diameter of a circle is 22 cm. Find the area of the circle.

17. The radius of a circle is 20m. Find the area of the circle.

Name: _____ Period: _____ Date: _____

Area of Circles Assignment

18. The length of the longest leg of a clock is 4 inches. Find the area of the clock.

19. The area of one face of a coin is 113.09mm^2 . Find the diameter of the coin.

20. The diameter of a plate is 8 inches. Find the area of the plate.

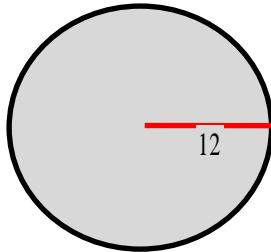
Area of Circles Assignment

Answer:

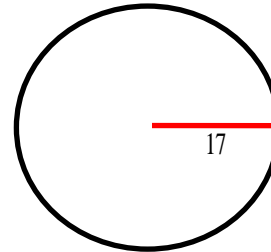
Find the area of the following circle.

$$A = \pi r^2$$

1.



2.



Solution:

$$A = \pi r^2$$

$$A = \pi 12^2$$

$$A = 144\pi$$

Solution:

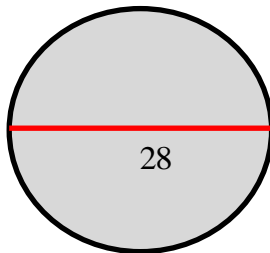
$$A = \pi r^2$$

$$A = \pi 17^2$$

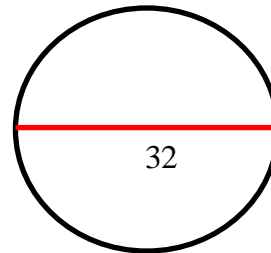
$$A = 289\pi$$

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

3.



4.



Solution:

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

$$A = \frac{\pi 28^2}{4}$$

$$A = \frac{784\pi}{4}$$

$$A = 196\pi$$

Solution:

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

$$A = \frac{\pi 32^2}{4}$$

$$A = \frac{1024\pi}{4}$$

$$A = 256\pi$$

Area of Circles Assignment

Complete the table below. Find the area or the radius of the following circles.

	Radius	Area
5.	5	25π
6.	3	9π
7.	16m	256π
8.	17m	$289\pi\text{cm}^2$
9.	25cm	625π

Complete the table below. Find the area or the diameter of the following circles.

	Diameter	Area
10.	18	81π
11.	14.7	54π
12.	26m	$169\pi\text{m}^2$
13.	131.62cm	$250\pi\text{cm}^2$
14.	30cm	$225\pi\text{cm}^2$

Solve Problem involving circles.

15. The area of a circle is 121π . Find its diameter.

Solution:

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

$$124\pi = \frac{\pi d^2}{4}$$

$$124(4)\pi = \pi d^2$$

$$d^2 = 496$$

$$d = 22.27$$

16. The diameter of a circle is 22 cm. Find the area of the circle.

Area of Circles Assignment

Solution:

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

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

$$A = \frac{484\pi}{4}$$

$$A = 121\pi$$

17. The radius of a circle is 20m. Find the area of the circle.

Solution:

$$A = \pi r^2$$

$$A = \pi 20^2$$

$$A = 400\pi m^2 \text{ or } 1256.64 m^2$$

18. The length of the longest leg of a clock is 4 inches. Find the area of the clock.

Solution:

$$A = \pi r^2$$

$$A = \pi 4^2$$

$$A = 16\pi \text{ inch}^2 \text{ or } 50.27 \text{ inch}^2$$

19. The area of one face of a coin is 113.09mm². Find the diameter of the coin.

Solution:

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

$$113.09 = \frac{\pi d^2}{4}$$

$$113.09(4) = \pi d^2$$

$$\frac{452.36}{\pi} = d^2$$

$$d^2 = 143.99$$

$$d = 11.99 \text{ or } 12\text{mm}$$

20. The diameter of a plate is 8 inches. Find the area of the plate.

Solution:

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

$$A = \frac{\pi 8^2}{4}$$

$$A = \frac{64\pi}{4}$$

$$A = 16\pi \text{ inch}^2 \text{ or } 50.27 \text{ inch}^2$$