



# Area & Circumference of Circle

Name \_\_\_\_\_

Score \_\_\_\_\_

AC:23

Find the area of each circle from the given circumference. (Use  $\pi = \frac{22}{7}$  or 3.14)

1) Circumference = 9.42 yd

Circumference =  $2\pi r$


$9.42 \text{ yd} = 2 \times 3.14 \times r$

$9.42 \text{ yd} = 6.28 \times r ; r = 1.5 \text{ yd}$

Area =  $\pi r^2 = 3.14 \times 1.5^2$

$= 3.14 \times 2.25 = 7.065 \text{ yd}^2$

2) Circumference = 144.44 ft

Area = 

3) Circumference = 37.68 in

Area = 

4) Circumference = 23.864 in

Area = 

5) Circumference = 87.92 yd

Area = 

6) Circumference = 59.66 ft

Area = 

7) Circumference = 119.32 yd

Area = 

Find the circumference of each circle from the given area. (Use  $\pi = \frac{22}{7}$  or 3.14)

1) Area = 153.86 ft<sup>2</sup>

Area =  $\pi r^2$

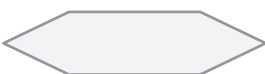
$153.86 \text{ ft}^2 = 3.14 \times r^2$

$49 \text{ ft}^2 = r^2 ; r = 7 \text{ ft}$

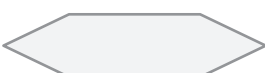
Circumference =  $2\pi r$

$= 2 \times 3.14 \times 7 = 43.96 \text{ ft}$

2) Area = 63.585 in<sup>2</sup>

Circumference = 

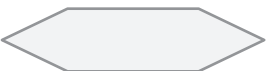
3) Area = 1519.76 yd<sup>2</sup>

Circumference = 

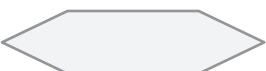
4) Area = 28.26 in<sup>2</sup>

Circumference = 

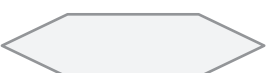
5) Area = 907.46 yd<sup>2</sup>

Circumference = 

6) Area = 84.9056 ft<sup>2</sup>

Circumference = 

7) Area = 452.16 in<sup>2</sup>

Circumference = 



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## Answer key

AC:23

Find the area of each circle from the given circumference. (Use  $\pi = \frac{22}{7}$  or 3.14)

1) Circumference = 9.42 yd

$$\text{Circumference} = 2\pi r$$

$$9.42 \text{ yd} = 2 \times 3.14 \times r$$

$$9.42 \text{ yd} = 6.28 \times r ; r = 1.5 \text{ yd}$$

$$\text{Area} = \pi r^2 = 3.14 \times 1.5^2$$

$$= 3.14 \times 2.25 = 7.065 \text{ yd}^2$$

2) Circumference = 144.44 ft

$$\text{Area} = 1661.06 \text{ ft}^2$$

3) Circumference = 37.68 in

$$\text{Area} = 113.04 \text{ in}^2$$

4) Circumference = 23.864 in

$$\text{Area} = 45.3416 \text{ in}^2$$

5) Circumference = 87.92 yd

$$\text{Area} = 615.44 \text{ yd}^2$$

6) Circumference = 59.66 ft

$$\text{Area} = 283.385 \text{ ft}^2$$

7) Circumference = 119.32 yd

$$\text{Area} = 1133.54 \text{ yd}^2$$

Find the circumference of each circle from the given area. (Use  $\pi = \frac{22}{7}$  or 3.14)

1) Area = 153.86 ft<sup>2</sup>

$$\text{Area} = \pi r^2$$

$$153.86 \text{ ft}^2 = 3.14 \times r^2$$

$$49 \text{ ft}^2 = r^2 ; r = 7 \text{ ft}$$

$$\text{Circumference} = 2\pi r$$

$$= 2 \times 3.14 \times 7 = 43.96 \text{ ft}$$

2) Area = 63.585 in<sup>2</sup>

$$\text{Circumference} = 28.26 \text{ in}$$

3) Area = 1519.76 yd<sup>2</sup>

$$\text{Circumference} = 138.16 \text{ yd}$$

4) Area = 28.26 in<sup>2</sup>

$$\text{Circumference} = 18.84 \text{ in}$$

5) Area = 907.46 yd<sup>2</sup>

$$\text{Circumference} = 106.76 \text{ yd}$$

6) Area = 84.9056 ft<sup>2</sup>

$$\text{Circumference} = 32.656 \text{ ft}$$

7) Area = 452.16 in<sup>2</sup>

$$\text{Circumference} = 75.36 \text{ in}$$