



## Area & Circumference of Circle

Name \_\_\_\_\_

Score \_\_\_\_\_

AC:27

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

1) Circumference = 16.956 m

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

$$16.956 \text{ m} = 2 \times 3.14 \times r$$

$$16.956 \text{ m} = 6.28 \times r ; r = 2.7 \text{ m}$$

$$\text{Area} = \pi r^2 = 3.14 \times 2.7^2$$

$$= 3.14 \times 7.29 = 22.8906 \text{ m}^2$$

2) Circumference = 31.4 cm

$$\text{Area} = \text{_____}$$

3) Circumference = 65.94 mm

$$\text{Area} = \text{_____}$$

4) Circumference = 169.56 m

$$\text{Area} = \text{_____}$$

5) Circumference = 200.96 mm

$$\text{Area} = \text{_____}$$

6) Circumference = 91.06 cm

$$\text{Circumference} = \text{_____}$$

$$\text{Area} = \text{_____}$$

7) Circumference = 6.28 m

$$\text{Area} = \text{_____}$$

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

1) Area = 1962.5 cm<sup>2</sup>

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

$$1962.5 \text{ cm}^2 = 3.14 \times r^2$$

$$625 \text{ cm}^2 = r^2 ; r = 25 \text{ cm}$$

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

$$= 2 \times 3.14 \times 25 = 157 \text{ cm}$$

2) Area = 50.24 m<sup>2</sup>

$$\text{Circumference} = \text{_____}$$

3) Area = 3419.46 mm<sup>2</sup>

$$\text{Circumference} = \text{_____}$$

4) Area = 754.385 m<sup>2</sup>

$$\text{Circumference} = \text{_____}$$

5) Area = 283.385 cm<sup>2</sup>

$$\text{Circumference} = \text{_____}$$

6) Area = 1384.74 mm<sup>2</sup>

$$\text{Circumference} = \text{_____}$$

7) Area = 530.66 cm<sup>2</sup>

$$\text{Circumference} = \text{_____}$$



# Area & Circumference of Circle

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## Answer key

AC:27

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

1) Circumference = 16.956 m

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

$$16.956 \text{ m} = 2 \times 3.14 \times r$$

$$16.956 \text{ m} = 6.28 \times r ; r = 2.7 \text{ m}$$

$$\text{Area} = \pi r^2 = 3.14 \times 2.7^2$$

$$= 3.14 \times 7.29 = 22.8906 \text{ m}^2$$

2) Circumference = 31.4 cm

$$\text{Area} = 78.5 \text{ cm}^2$$

3) Circumference = 65.94 mm

$$\text{Area} = 346.185 \text{ mm}^2$$

4) Circumference = 169.56 m

$$\text{Area} = 2289.06 \text{ m}^2$$

5) Circumference = 200.96 mm

$$\text{Area} = 3215.36 \text{ mm}^2$$

6) Circumference = 91.06 cm

$$\text{Circumference} =$$

$$\text{Area} = 660.185 \text{ cm}^2$$

7) Circumference = 6.28 m

$$\text{Area} = 3.14 \text{ m}^2$$

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

1) Area = 1962.5 cm<sup>2</sup>

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

$$1962.5 \text{ cm}^2 = 3.14 \times r^2$$

$$625 \text{ cm}^2 = r^2 ; r = 25 \text{ cm}$$

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

$$= 2 \times 3.14 \times 25 = 157 \text{ cm}$$

2) Area = 50.24 m<sup>2</sup>

$$25.12 \text{ m}$$

4) Area = 754.385 m<sup>2</sup>

$$\text{Circumference} = 97.34 \text{ m}$$

5) Area = 283.385 cm<sup>2</sup>

$$\text{Circumference} = 59.66 \text{ cm}$$

6) Area = 1384.74 mm<sup>2</sup>

$$\text{Circumference} = 131.88 \text{ mm}$$

3) Area = 3419.46 mm<sup>2</sup>

7) Area = 530.66 cm<sup>2</sup>

$$\text{Circumference} = 207.24 \text{ mm}$$

$$\text{Circumference} = 81.64 \text{ cm}$$