



Area & Circumference of Circle

Name _____

Score _____

AC:26

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

1) Circumference = 34.54 cm

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

$$34.54 \text{ cm} = 2 \times 3.14 \times r$$

$$34.54 \text{ cm} = 6.28 \times r ; r = 5.5 \text{ cm}$$

$$\text{Area} = \pi r^2 = 3.14 \times 5.5^2$$

$$= 3.14 \times 30.25 = 94.985 \text{ cm}^2$$

2) Circumference = 194.68 mm

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

3) Circumference = 87.92 m

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

4) Circumference = 16.328 mm

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

5) Circumference = 43.96 cm

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

6) Circumference = 40.82 m

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

7) Circumference = 106.76 cm

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

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

1) Area = 113.04 m²

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

$$113.04 \text{ m}^2 = 3.14 \times r^2$$

$$113.04 \text{ m}^2 = r^2 ; r = 6 \text{ m}$$

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

$$= 2 \times 3.14 \times 6 = 37.68 \text{ m}$$

2) Area = 490.625 mm²

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

3) Area = 1256 cm²

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

4) Area = 1017.36 cm²

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

5) Area = 38.465 mm²

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

6) Area = 701.5 m²

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

7) Area = 162.7776 mm²

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



Area & Circumference of Circle

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Answer key

AC:26

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

1) Circumference = 34.54 cm

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

$$34.54 \text{ cm} = 2 \times 3.14 \times r$$

$$34.54 \text{ cm} = 6.28 \times r ; r = 5.5 \text{ cm}$$

$$\text{Area} = \pi r^2 = 3.14 \times 5.5^2$$

$$= 3.14 \times 30.25 = 94.985 \text{ cm}^2$$

2) Circumference = 194.68 mm

$$\text{Area} = 3017.54 \text{ mm}^2$$

3) Circumference = 87.92 m

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

4) Circumference = 16.328 mm

$$\text{Area} = 21.2264 \text{ mm}^2$$

5) Circumference = 43.96 cm

$$\text{Area} = 153.86 \text{ cm}^2$$

6) Circumference = 40.82 m

$$\text{Area} = 132.665 \text{ m}^2$$

7) Circumference = 106.76 cm

$$\text{Area} = 907.46 \text{ cm}^2$$

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

1) Area = 113.04 m²

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

$$113.04 \text{ m}^2 = 3.14 \times r^2$$

$$113.04 \text{ m}^2 = r^2 ; r = 6 \text{ m}$$

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

$$= 2 \times 3.14 \times 6 = 37.68 \text{ m}$$

2) Area = 490.625 mm²

$$\text{Circumference} = 78.5 \text{ mm}$$

3) Area = 1256 cm²

$$\text{Circumference} = 125.6 \text{ cm}$$

4) Area = 1017.36 cm²

$$\text{Circumference} = 113.04 \text{ cm}$$

5) Area = 38.465 mm²

$$\text{Circumference} = 21.98 \text{ mm}$$

6) Area = 701.5 m²

$$\text{Circumference} = 94.2 \text{ m}$$

7) Area = 162.7776 mm²

$$\text{Circumference} = 45.216 \text{ mm}$$