

Solutions – Arc Length & Sector in Degrees (A)

A sector of a circle has radius 5 cm and central angle 30° . Find the arc length in terms of π .

$5\pi/6 \text{ cm}$

A sector of a circle has radius 9 cm and central angle 160° . Find the area of the sector in terms of π .

$36\pi \text{ cm}^2$

A sector of a circle has radius 4 cm and central angle 80° . Find the arc length in terms of π .

$16\pi/9 \text{ cm}$

A sector of a circle has radius 3 cm and central angle 80° . Find the area of the sector in terms of π .

$2\pi \text{ cm}^2$

A sector of a circle has radius 8 cm and central angle 20° . Find the arc length in terms of π .

$8\pi/9 \text{ cm}$

Solutions – Arc Length & Sector in Degrees (B)

A sector of a circle has radius 9 cm and central angle 140° . Find the arc length in terms of π .

7π cm

A sector of a circle has radius 6 cm and central angle 180° . Find the arc length in terms of π .

6π cm

A sector of a circle has radius 10 cm and central angle 140° . Find the arc length in terms of π .

$70\pi/9$ cm

A sector of a circle has radius 4 cm and central angle 90° . Find the area of the sector in terms of π .

4π cm²

A sector of a circle has radius 8 cm and central angle 140° . Find the area of the sector in terms of π .

$224\pi/9$ cm²

Solutions – Arc Length & Sector in Degrees (C)

A sector of a circle has radius 3 cm and central angle 20° . Find the arc length in terms of π .

$$\pi/3 \text{ cm}$$

A sector of a circle has radius 10 cm and central angle 120° . Find the area of the sector in terms of π .

$$100\pi/3 \text{ cm}^2$$

A sector of a circle has radius 6 cm and central angle 150° . Find the arc length in terms of π .

$$5\pi \text{ cm}$$

A sector of a circle has radius 8 cm and central angle 90° . Find the area of the sector in terms of π .

$$16\pi \text{ cm}^2$$

A sector of a circle has radius 7 cm and central angle 20° . Find the area of the sector in terms of π .

$$49\pi/18 \text{ cm}^2$$

Solutions – Arc Length & Sector in Degrees (D)

A sector of a circle has radius 6 cm and central angle 30° . Find the arc length in terms of π .

π cm

A sector of a circle has radius 3 cm and central angle 20° . Find the area of the sector in terms of π .

$\pi/2$ cm²

A sector of a circle has radius 7 cm and central angle 100° . Find the area of the sector in terms of π .

$245\pi/18$ cm²

A sector of a circle has radius 9 cm and central angle 160° . Find the area of the sector in terms of π .

36π cm²

A sector of a circle has radius 4 cm and central angle 40° . Find the arc length in terms of π .

$8\pi/9$ cm

Solutions – Arc Length & Sector in Degrees (E)

A sector of a circle has radius 5 cm and central angle 80° . Find the area of the sector in terms of π .

$$50\pi/9 \text{ cm}^2$$

A sector of a circle has radius 8 cm and central angle 100° . Find the arc length in terms of π .

$$40\pi/9 \text{ cm}$$

A sector of a circle has radius 4 cm and central angle 20° . Find the arc length in terms of π .

$$4\pi/9 \text{ cm}$$

A sector of a circle has radius 6 cm and central angle 20° . Find the area of the sector in terms of π .

$$2\pi \text{ cm}^2$$

A sector of a circle has radius 3 cm and central angle 50° . Find the arc length in terms of π .

$$5\pi/6 \text{ cm}$$

Solutions – Arc Length & Sector in Degrees (F)

A sector of a circle has radius 3 cm and central angle 80° . Find the arc length in terms of π .

$$4\pi/3 \text{ cm}$$

A sector of a circle has radius 4 cm and central angle 170° . Find the arc length in terms of π .

$$34\pi/9 \text{ cm}$$

A sector of a circle has radius 7 cm and central angle 20° . Find the area of the sector in terms of π .

$$49\pi/18 \text{ cm}^2$$

A sector of a circle has radius 6 cm and central angle 180° . Find the area of the sector in terms of π .

$$18\pi \text{ cm}^2$$

A sector of a circle has radius 10 cm and central angle 40° . Find the arc length in terms of π .

$$20\pi/9 \text{ cm}$$

Solutions – Arc Length & Sector in Degrees (G)

A sector of a circle has radius 4 cm and central angle 80° . Find the arc length in terms of π .

$$16\pi/9 \text{ cm}$$

A sector of a circle has radius 7 cm and central angle 20° . Find the area of the sector in terms of π .

$$49\pi/18 \text{ cm}^2$$

A sector of a circle has radius 5 cm and central angle 150° . Find the arc length in terms of π .

$$25\pi/6 \text{ cm}$$

A sector of a circle has radius 6 cm and central angle 150° . Find the area of the sector in terms of π .

$$15\pi \text{ cm}^2$$

A sector of a circle has radius 9 cm and central angle 150° . Find the area of the sector in terms of π .

$$135\pi/4 \text{ cm}^2$$

Solutions – Arc Length & Sector in Degrees (H)

A sector of a circle has radius 10 cm and central angle 70° . Find the area of the sector in terms of π .

$$175\pi/9 \text{ cm}^2$$

A sector of a circle has radius 6 cm and central angle 100° . Find the area of the sector in terms of π .

$$10\pi \text{ cm}^2$$

A sector of a circle has radius 9 cm and central angle 170° . Find the arc length in terms of π .

$$17\pi/2 \text{ cm}$$

A sector of a circle has radius 7 cm and central angle 40° . Find the arc length in terms of π .

$$14\pi/9 \text{ cm}$$

A sector of a circle has radius 5 cm and central angle 40° . Find the arc length in terms of π .

$$10\pi/9 \text{ cm}$$

Solutions – Arc Length & Sector in Degrees (I)

A sector of a circle has radius 10 cm and central angle 120° . Find the arc length in terms of π .

$20\pi/3$ cm

A sector of a circle has radius 3 cm and central angle 160° . Find the area of the sector in terms of π .

4π cm²

A sector of a circle has radius 7 cm and central angle 150° . Find the area of the sector in terms of π .

$245\pi/12$ cm²

A sector of a circle has radius 4 cm and central angle 40° . Find the arc length in terms of π .

$8\pi/9$ cm

A sector of a circle has radius 6 cm and central angle 180° . Find the area of the sector in terms of π .

18π cm²

Solutions – Arc Length & Sector in Degrees (J)

A sector of a circle has radius 6 cm and central angle 140° . Find the arc length in terms of π .

$$14\pi/3 \text{ cm}$$

A sector of a circle has radius 5 cm and central angle 170° . Find the area of the sector in terms of π .

$$425\pi/36 \text{ cm}^2$$

A sector of a circle has radius 8 cm and central angle 120° . Find the arc length in terms of π .

$$16\pi/3 \text{ cm}$$

A sector of a circle has radius 3 cm and central angle 80° . Find the area of the sector in terms of π .

$$2\pi \text{ cm}^2$$

A sector of a circle has radius 9 cm and central angle 170° . Find the area of the sector in terms of π .

$$153\pi/4 \text{ cm}^2$$