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Quarter Circle Formulas

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List of 30 Quarter Circle Formulas

Quarter Circle

Arc Length of Quarter Circle

1) Arc Length of Quarter Circle

$$\text{fx } l_{\text{Arc}} = \frac{\pi \cdot r}{2}$$

[Open Calculator !\[\]\(de95854c7ee024cfadc48187bbb781b2_img.jpg\)](#)

$$\text{ex } 7.853982\text{m} = \frac{\pi \cdot 5\text{m}}{2}$$

2) Arc Length of Quarter Circle given Area

$$\text{fx } l_{\text{Arc}} = \sqrt{\pi \cdot A}$$

[Open Calculator !\[\]\(6a9b39b98eb945faa14c645ec99e4eaa_img.jpg\)](#)

$$\text{ex } 7.926655\text{m} = \sqrt{\pi \cdot 20\text{m}^2}$$

3) Arc Length of Quarter Circle given Chord Length

$$\text{fx } l_{\text{Arc}} = \frac{\pi \cdot l_{\text{Chord}}}{\sqrt{8}}$$

[Open Calculator !\[\]\(f1c5da15572e3e09d343161be98f508d_img.jpg\)](#)

$$\text{ex } 7.775045\text{m} = \frac{\pi \cdot 7\text{m}}{\sqrt{8}}$$



4) Arc Length of Quarter Circle given Diameter

$$\text{fx } l_{\text{Arc}} = \frac{\pi \cdot D_{\text{Circle}}}{4}$$

[Open Calculator !\[\]\(cbe80b694ebd74fcfe136a095b608235_img.jpg\)](#)

$$\text{ex } 7.853982\text{m} = \frac{\pi \cdot 10\text{m}}{4}$$

5) Arc Length of Quarter Circle given Perimeter

$$\text{fx } l_{\text{Arc}} = \frac{\pi \cdot P}{\pi + 4}$$

[Open Calculator !\[\]\(3e2231b1ad3ca8da8658228c00dd08e0_img.jpg\)](#)

$$\text{ex } 7.918215\text{m} = \frac{\pi \cdot 18\text{m}}{\pi + 4}$$

Area of Quarter Circle

6) Area of Quarter Circle given Arc Length

$$\text{fx } A = \frac{l_{\text{Arc}}^2}{\pi}$$

[Open Calculator !\[\]\(b792654f2cef9719eabeb6c5be00811e_img.jpg\)](#)

$$\text{ex } 20.37183\text{m}^2 = \frac{(8\text{m})^2}{\pi}$$



7) Area of Quarter Circle given Chord Length

$$\text{fx } A = \frac{\pi \cdot l_{\text{Chord}}^2}{8}$$

[Open Calculator !\[\]\(e78f798d4ea5c530c9db49e7d26e6b95_img.jpg\)](#)

$$\text{ex } 19.24226\text{m}^2 = \frac{\pi \cdot (7\text{m})^2}{8}$$

8) Area of Quarter Circle given Diameter of Circle

$$\text{fx } A = \frac{\pi \cdot D_{\text{Circle}}^2}{16}$$

[Open Calculator !\[\]\(05be7c7a8995decd503647c99211f7c2_img.jpg\)](#)

$$\text{ex } 19.63495\text{m}^2 = \frac{\pi \cdot (10\text{m})^2}{16}$$

9) Area of Quarter Circle given Perimeter

$$\text{fx } A = \frac{\pi \cdot P^2}{(\pi + 4)^2}$$

[Open Calculator !\[\]\(fe3aebe81acea8d45108cd2768939da7_img.jpg\)](#)

$$\text{ex } 19.95744\text{m}^2 = \frac{\pi \cdot (18\text{m})^2}{(\pi + 4)^2}$$



10) Area of Quarter Circle given Radius

$$\text{fx } A = \frac{\pi \cdot r^2}{4}$$

[Open Calculator !\[\]\(e2376d476d06eb31946dc01a69a4403a_img.jpg\)](#)

$$\text{ex } 19.63495\text{m}^2 = \frac{\pi \cdot (5\text{m})^2}{4}$$

Chord Length of Quarter circle

11) Chord Length of Quarter Circle

$$\text{fx } l_{\text{Chord}} = r \cdot \sqrt{2}$$

[Open Calculator !\[\]\(8bba887393ca45b761e5cb49e755e762_img.jpg\)](#)

$$\text{ex } 7.071068\text{m} = 5\text{m} \cdot \sqrt{2}$$

12) Chord Length of Quarter Circle given Arc Length

$$\text{fx } l_{\text{Chord}} = \frac{\sqrt{8} \cdot l_{\text{Arc}}}{\pi}$$

[Open Calculator !\[\]\(0fb13ad0bfa3d86868cdd3883e5665b3_img.jpg\)](#)

$$\text{ex } 7.202531\text{m} = \frac{\sqrt{8} \cdot 8\text{m}}{\pi}$$

13) Chord Length of Quarter Circle given Area

$$\text{fx } l_{\text{Chord}} = \sqrt{\frac{8 \cdot A}{\pi}}$$

[Open Calculator !\[\]\(e50091943b385fe16d3277389202856f_img.jpg\)](#)

$$\text{ex } 7.136496\text{m} = \sqrt{\frac{8 \cdot 20\text{m}^2}{\pi}}$$



14) Chord Length of Quarter Circle given Diameter 

$$fx \quad l_{\text{Chord}} = \frac{D_{\text{Circle}}}{\sqrt{2}}$$

[Open Calculator !\[\]\(d3fb9f94af8b26d1c844efa9a98805b0_img.jpg\)](#)


$$ex \quad 7.071068\text{m} = \frac{10\text{m}}{\sqrt{2}}$$

15) Chord Length of Quarter Circle given Perimeter 

$$fx \quad l_{\text{Chord}} = \frac{\sqrt{8} \cdot P}{\pi + 4}$$

[Open Calculator !\[\]\(e1d6102fe77919492c04879c8450f1f5_img.jpg\)](#)

$$ex \quad 7.128898\text{m} = \frac{\sqrt{8} \cdot 18\text{m}}{\pi + 4}$$

Diameter of Quarter Circle 16) Diameter of Quarter Circle 

$$fx \quad D_{\text{Circle}} = 2 \cdot r$$

[Open Calculator !\[\]\(104fbf564e2e5a8fbd84f31656d114c7_img.jpg\)](#)

$$ex \quad 10\text{m} = 2 \cdot 5\text{m}$$

17) Diameter of Quarter Circle given Arc Length 

$$fx \quad D_{\text{Circle}} = 4 \cdot \frac{l_{\text{Arc}}}{\pi}$$

[Open Calculator !\[\]\(21226b58c700e5231ab98d27101bac58_img.jpg\)](#)


$$ex \quad 10.18592\text{m} = 4 \cdot \frac{8\text{m}}{\pi}$$



18) Diameter of Quarter Circle given Area [Open Calculator !\[\]\(feabb98897b440bc8695a03336a6e2df_img.jpg\)](#)

$$\text{fx } D_{\text{Circle}} = 2 \cdot \sqrt{4 \cdot \frac{A}{\pi}}$$

$$\text{ex } 10.09253\text{m} = 2 \cdot \sqrt{4 \cdot \frac{20\text{m}^2}{\pi}}$$

19) Diameter of Quarter Circle given Chord Length [Open Calculator !\[\]\(642aa997563f9a325b310230bb5078b7_img.jpg\)](#)

$$\text{fx } D_{\text{Circle}} = l_{\text{Chord}} \cdot \sqrt{2}$$

$$\text{ex } 9.899495\text{m} = 7\text{m} \cdot \sqrt{2}$$

20) Diameter of Quarter Circle given Perimeter [Open Calculator !\[\]\(51514032c8ca341817228f39f1307b05_img.jpg\)](#)

$$\text{fx } D_{\text{Circle}} = \frac{4 \cdot P}{\pi + 4}$$

$$\text{ex } 10.08178\text{m} = \frac{4 \cdot 18\text{m}}{\pi + 4}$$

Perimeter of Quarter Circle 21) Perimeter of Quarter Circle [Open Calculator !\[\]\(06a315363e7801bba8c7489a6694af19_img.jpg\)](#)

$$\text{fx } P = 2 \cdot r \cdot \left(1 + \frac{\pi}{4}\right)$$

$$\text{ex } 17.85398\text{m} = 2 \cdot 5\text{m} \cdot \left(1 + \frac{\pi}{4}\right)$$



22) Perimeter of Quarter Circle given Arc Length

$$fx \quad P = \frac{(\pi + 4) \cdot l_{Arc}}{\pi}$$

[Open Calculator !\[\]\(6605b201d6f14d9b3bcb8ab5f274d107_img.jpg\)](#)

$$ex \quad 18.18592m = \frac{(\pi + 4) \cdot 8m}{\pi}$$

23) Perimeter of Quarter Circle given Area

$$fx \quad P = (\pi + 4) \cdot \sqrt{\frac{A}{\pi}}$$

[Open Calculator !\[\]\(e8fb589d58dad1692debababa5e928b6_img.jpg\)](#)

$$ex \quad 18.01918m = (\pi + 4) \cdot \sqrt{\frac{20m^2}{\pi}}$$

24) Perimeter of Quarter Circle given Chord Length

$$fx \quad P = \frac{(\pi + 4) \cdot l_{Chord}}{\sqrt{8}}$$

[Open Calculator !\[\]\(4688aadfd656ded00cd6bdfae55089a9_img.jpg\)](#)

$$ex \quad 17.67454m = \frac{(\pi + 4) \cdot 7m}{\sqrt{8}}$$

25) Perimeter of Quarter Circle given Diameter of Circle

$$fx \quad P = D_{Circle} \cdot \left(1 + \frac{\pi}{4}\right)$$

[Open Calculator !\[\]\(4146d17f71dced09c6ad789cacceaa6d_img.jpg\)](#)

$$ex \quad 17.85398m = 10m \cdot \left(1 + \frac{\pi}{4}\right)$$



Radius of Quarter Circle

26) Radius of Quarter Circle given Arc Length

$$\text{fx } r = 2 \cdot \frac{l_{\text{Arc}}}{\pi}$$

[Open Calculator !\[\]\(d66ff64371a51729ac8c1cdaa685ba6f_img.jpg\)](#)

$$\text{ex } 5.092958\text{m} = 2 \cdot \frac{8\text{m}}{\pi}$$

27) Radius of Quarter Circle given Area

$$\text{fx } r = \sqrt{4 \cdot \frac{A}{\pi}}$$

[Open Calculator !\[\]\(faf942dc3e59ce8eb64b4ac481eca7e0_img.jpg\)](#)

$$\text{ex } 5.046265\text{m} = \sqrt{4 \cdot \frac{20\text{m}^2}{\pi}}$$

28) Radius of Quarter Circle given Chord Length

$$\text{fx } r = \frac{l_{\text{Chord}}}{\sqrt{2}}$$

[Open Calculator !\[\]\(95b425611cbd2b8716a140cf67c81822_img.jpg\)](#)

$$\text{ex } 4.949747\text{m} = \frac{7\text{m}}{\sqrt{2}}$$



29) Radius of Quarter Circle given Diameter

$$\text{fx } r = \frac{D_{\text{Circle}}}{2}$$

[Open Calculator !\[\]\(0f848bbd71cef6b345273b16f905912a_img.jpg\)](#)

$$\text{ex } 5\text{m} = \frac{10\text{m}}{2}$$

30) Radius of Quarter Circle given Perimeter

$$\text{fx } r = \frac{2 \cdot P}{\pi + 4}$$

[Open Calculator !\[\]\(3211b5d1d968fc1665909b34f9f16010_img.jpg\)](#)

$$\text{ex } 5.040892\text{m} = \frac{2 \cdot 18\text{m}}{\pi + 4}$$





Variables Used

- **A** Area of Quarter Circle (*Square Meter*)
- **D_{Circle}** Diameter of Circle of Quarter Circle (*Meter*)
- **l_{Arc}** Arc Length of Quarter Circle (*Meter*)
- **l_{Chord}** Chord Length of Quarter Circle (*Meter*)
- **P** Perimeter of Quarter Circle (*Meter*)
- **r** Radius of Quarter Circle (*Meter*)



Constants, Functions, Measurements used




















- **Constant:** **pi**, 3.14159265358979323846264338327950288
Archimedes' constant
- **Function:** **sqrt**, sqrt(Number)
Square root function
- **Measurement:** **Length** in Meter (m)
Length Unit Conversion 
- **Measurement:** **Area** in Square Meter (m²)
Area Unit Conversion 



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