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Half Yin-Yang Formulas

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List of 12 Half Yin-Yang Formulas

Half Yin-Yang

Area of Half Yin-Yang

1) Area of Half Yin-Yang

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

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

$$\text{ex } 39.26991\text{m}^2 = \frac{\pi \cdot (5\text{m})^2}{2}$$

2) Area of Half Yin-Yang given Diameter

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

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

$$\text{ex } 39.26991\text{m}^2 = \frac{\pi \cdot (10\text{m})^2}{8}$$

3) Area of Half Yin-Yang given Perimeter

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

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

$$\text{ex } 35.80986\text{m}^2 = \frac{(30\text{m})^2}{8 \cdot \pi}$$



Diameter of Half Yin-Yang

4) Diameter of Half Yin-Yang

$$\text{fx } D = 2 \cdot r$$

[Open Calculator !\[\]\(a03a7eb2f4046e1d3c76772003e549ea_img.jpg\)](#)

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

5) Diameter of Half Yin-Yang given Area

$$\text{fx } D = 2 \cdot \sqrt{\frac{2}{\pi} \cdot A}$$

[Open Calculator !\[\]\(5361750c22c4e047a52f4eac1ec2d4cc_img.jpg\)](#)

$$\text{ex } 10.09253\text{m} = 2 \cdot \sqrt{\frac{2}{\pi} \cdot 40\text{m}^2}$$

6) Diameter of Half Yin-Yang given Perimeter

$$\text{fx } D = \frac{P}{\pi}$$

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

$$\text{ex } 9.549297\text{m} = \frac{30\text{m}}{\pi}$$

Perimeter of Half Yin-Yang

7) Perimeter of Half Yin-Yang

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

[Open Calculator !\[\]\(28f72b996fc97883dfd9d4e8b1b16b4e_img.jpg\)](#)

$$\text{ex } 31.41593\text{m} = 2 \cdot \pi \cdot 5\text{m}$$




8) Perimeter of Half Yin-Yang given Area 

$$\text{fx } P = 2 \cdot \pi \cdot \sqrt{\frac{2}{\pi} \cdot A}$$

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

$$\text{ex } 31.70662\text{m} = 2 \cdot \pi \cdot \sqrt{\frac{2}{\pi} \cdot 40\text{m}^2}$$

9) Perimeter of Half Yin-Yang given Diameter 

$$\text{fx } P = \pi \cdot D$$

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

$$\text{ex } 31.41593\text{m} = \pi \cdot 10\text{m}$$

Radius of Half Yin-Yang 10) Radius of Half Yin-Yang 

$$\text{fx } r = \frac{D}{2}$$

[Open Calculator !\[\]\(626ce8ac21792b9405bfddfea8e0c96a_img.jpg\)](#)

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

11) Radius of Half Yin-Yang given Area 

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

[Open Calculator !\[\]\(c1168d6a8b365d11e842ece304635fa7_img.jpg\)](#)

$$\text{ex } 5.046265\text{m} = \sqrt{\frac{2}{\pi} \cdot 40\text{m}^2}$$



12) Radius of Half Yin-Yang given Perimeter

[Open Calculator !\[\]\(bd1a142de767a21e5362c595f844a4ff_img.jpg\)](#)

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

$$\text{ex } 4.774648\text{m} = \frac{30\text{m}}{2 \cdot \pi}$$





Variables Used

- **A** Area of Half Yin-Yang (*Square Meter*)
- **D** Diameter of Half Yin-Yang (*Meter*)
- **P** Perimeter of Half Yin-Yang (*Meter*)
- **r** Radius of Half Yin-Yang (*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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