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Heart Shape Formulas

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List of 20 Heart Shape Formulas

Heart Shape ↗

Area of Heart Shape ↗

1) Area of Heart Shape ↗

fx
$$A = \left(1 + \frac{\pi}{4}\right) \cdot l_e^2 (\text{Square})$$

[Open Calculator ↗](#)

ex
$$178.5398m^2 = \left(1 + \frac{\pi}{4}\right) \cdot (10m)^2$$

2) Area of Heart Shape given Height ↗

fx
$$A = \left(1 + \frac{\pi}{4}\right) \cdot \left(\frac{h}{\frac{3\sqrt{2}}{4} + \frac{1}{2}} \right)^2$$

[Open Calculator ↗](#)

ex
$$164.9305m^2 = \left(1 + \frac{\pi}{4}\right) \cdot \left(\frac{15m}{\frac{3\sqrt{2}}{4} + \frac{1}{2}} \right)^2$$



3) Area of Heart Shape given Perimeter ↗

$$fx \quad A = \left(1 + \frac{\pi}{4}\right) \cdot \left(\frac{P}{2 + \pi}\right)^2$$

[Open Calculator ↗](#)

$$ex \quad 168.8417m^2 = \left(1 + \frac{\pi}{4}\right) \cdot \left(\frac{50m}{2 + \pi}\right)^2$$

4) Area of Heart Shape given Width ↗

$$fx \quad A = \left(1 + \frac{\pi}{4}\right) \cdot \left(\frac{w}{\frac{1}{\sqrt{2}} + 1}\right)^2$$

[Open Calculator ↗](#)

$$ex \quad 177.0564m^2 = \left(1 + \frac{\pi}{4}\right) \cdot \left(\frac{17m}{\frac{1}{\sqrt{2}} + 1}\right)^2$$

Edge Length of Square of Heart Shape ↗

5) Edge Length of Square of Heart Shape given Area ↗

$$fx \quad l_e(\text{Square}) = \sqrt{\frac{A}{1 + \frac{\pi}{4}}}$$

[Open Calculator ↗](#)

$$ex \quad 10.04081m = \sqrt{\frac{180m^2}{1 + \frac{\pi}{4}}}$$



6) Edge Length of Square of Heart Shape given Height ↗

fx $l_e(\text{Square}) = \frac{h}{\frac{3\sqrt{2}}{4} + \frac{1}{2}}$

[Open Calculator ↗](#)

ex $9.611317m = \frac{15m}{\frac{3\sqrt{2}}{4} + \frac{1}{2}}$

7) Edge Length of Square of Heart Shape given Perimeter ↗

fx $l_e(\text{Square}) = \frac{P}{2 + \pi}$

[Open Calculator ↗](#)

ex $9.724613m = \frac{50m}{2 + \pi}$

8) Edge Length of Square of Heart Shape given Width ↗

fx $l_e(\text{Square}) = \frac{w}{\frac{1}{\sqrt{2}} + 1}$

[Open Calculator ↗](#)

ex $9.958369m = \frac{17m}{\frac{1}{\sqrt{2}} + 1}$



Height of Heart Shape ↗

9) Height of Heart Shape ↗

fx
$$h = \left(\frac{3 \cdot \sqrt{2}}{4} + \frac{1}{2} \right) \cdot l_{e(\text{Square})}$$

[Open Calculator ↗](#)

ex
$$15.6066m = \left(\frac{3 \cdot \sqrt{2}}{4} + \frac{1}{2} \right) \cdot 10m$$

10) Height of Heart Shape given Area ↗

fx
$$h = \left(\frac{3 \cdot \sqrt{2}}{4} + \frac{1}{2} \right) \cdot \sqrt{\frac{A}{1 + \frac{\pi}{4}}}$$

[Open Calculator ↗](#)

ex
$$15.67029m = \left(\frac{3 \cdot \sqrt{2}}{4} + \frac{1}{2} \right) \cdot \sqrt{\frac{180m^2}{1 + \frac{\pi}{4}}}$$

11) Height of Heart Shape given Perimeter ↗

fx
$$h = \left(\frac{3 \cdot \sqrt{2}}{4} + \frac{1}{2} \right) \cdot \frac{P}{2 + \pi}$$

[Open Calculator ↗](#)

ex
$$15.17682m = \left(\frac{3 \cdot \sqrt{2}}{4} + \frac{1}{2} \right) \cdot \frac{50m}{2 + \pi}$$



12) Height of Heart Shape given Width 

fx
$$h = \left(\frac{3 \cdot \sqrt{2}}{4} + \frac{1}{2} \right) \cdot \frac{w}{\frac{1}{\sqrt{2}} + 1}$$

Open Calculator 

ex
$$15.54163m = \left(\frac{3 \cdot \sqrt{2}}{4} + \frac{1}{2} \right) \cdot \frac{17m}{\frac{1}{\sqrt{2}} + 1}$$

Perimeter of Heart Shape 13) Perimeter of Heart Shape 

fx
$$P = (2 + \pi) \cdot l_e(\text{Square})$$

Open Calculator 

ex
$$51.41593m = (2 + \pi) \cdot 10m$$

14) Perimeter of Heart Shape given Area 

fx
$$P = (2 + \pi) \cdot \sqrt{\frac{A}{1 + \frac{\pi}{4}}}$$

Open Calculator 

ex
$$51.62575m = (2 + \pi) \cdot \sqrt{\frac{180m^2}{1 + \frac{\pi}{4}}}$$



15) Perimeter of Heart Shape given Height ↗

$$\text{fx } P = (2 + \pi) \cdot \frac{h}{\frac{3}{4} \cdot \sqrt{2} + \frac{1}{2}}$$

Open Calculator ↗

$$\text{ex } 49.41748m = (2 + \pi) \cdot \frac{15m}{\frac{3}{4} \cdot \sqrt{2} + \frac{1}{2}}$$

16) Perimeter of Heart Shape given Width ↗

$$\text{fx } P = (2 + \pi) \cdot \frac{w}{\frac{1}{\sqrt{2}} + 1}$$

Open Calculator ↗

$$\text{ex } 51.20188m = (2 + \pi) \cdot \frac{17m}{\frac{1}{\sqrt{2}} + 1}$$

Width of Heart Shape ↗**17) Width of Heart Shape ↗**

$$\text{fx } w = \left(\frac{1}{\sqrt{2}} + 1 \right) \cdot l_{e(\text{Square})}$$

Open Calculator ↗

$$\text{ex } 17.07107m = \left(\frac{1}{\sqrt{2}} + 1 \right) \cdot 10m$$



18) Width of Heart Shape given Area ↗

fx $w = \left(\frac{1}{\sqrt{2}} + 1 \right) \cdot \sqrt{\frac{A}{1 + \frac{\pi}{4}}}$

Open Calculator ↗

ex $17.14073m = \left(\frac{1}{\sqrt{2}} + 1 \right) \cdot \sqrt{\frac{180m^2}{1 + \frac{\pi}{4}}}$

19) Width of Heart Shape given Height ↗

fx $w = \left(\frac{1}{\sqrt{2}} + 1 \right) \cdot \frac{h}{\frac{3\sqrt{2}}{4} + \frac{1}{2}}$

Open Calculator ↗

ex $16.40754m = \left(\frac{1}{\sqrt{2}} + 1 \right) \cdot \frac{15m}{\frac{3\sqrt{2}}{4} + \frac{1}{2}}$

20) Width of Heart Shape given Perimeter ↗

fx $w = \left(\frac{1}{\sqrt{2}} + 1 \right) \cdot \frac{P}{2 + \pi}$

Open Calculator ↗

ex $16.60095m = \left(\frac{1}{\sqrt{2}} + 1 \right) \cdot \frac{50m}{2 + \pi}$



Variables Used

- **A** Area of Heart Shape (*Square Meter*)
- **h** Height of Heart Shape (*Meter*)
- **$l_e(\text{Square})$** Edge Length of Square of Heart Shape (*Meter*)
- **P** Perimeter of Heart Shape (*Meter*)
- **w** Width of Heart Shape (*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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