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Important Formulas of Hexagon

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List of 28 Important Formulas of Hexagon

Important Formulas of Hexagon ↗

Area of Hexagon ↗

1) Area of Hexagon ↗

$$fx \quad A = \frac{3 \cdot \sqrt{3}}{2} \cdot l_e^2$$

[Open Calculator ↗](#)

$$ex \quad 93.53074m^2 = \frac{3 \cdot \sqrt{3}}{2} \cdot (6m)^2$$

2) Area of Hexagon given Circumradius ↗

$$fx \quad A = \frac{3 \cdot \sqrt{3}}{2} \cdot r_c^2$$

[Open Calculator ↗](#)

$$ex \quad 93.53074m^2 = \frac{3 \cdot \sqrt{3}}{2} \cdot (6m)^2$$

3) Area of Hexagon given Height ↗

$$fx \quad A = \frac{\sqrt{3}}{2} \cdot h^2$$

[Open Calculator ↗](#)

$$ex \quad 86.60254m^2 = \frac{\sqrt{3}}{2} \cdot (10m)^2$$



4) Area of Hexagon given Perimeter 

fx
$$A = \frac{P^2}{8 \cdot \sqrt{3}}$$

Open Calculator 

ex
$$93.53074\text{m}^2 = \frac{(36\text{m})^2}{8 \cdot \sqrt{3}}$$

Diagonals of Hexagon **5) Long Diagonal of Hexagon** 

fx
$$d_{\text{Long}} = 2 \cdot l_e$$

Open Calculator 

ex
$$12\text{m} = 2 \cdot 6\text{m}$$

6) Long Diagonal of Hexagon given Circumradius 

fx
$$d_{\text{Long}} = 2 \cdot r_c$$

Open Calculator 

ex
$$12\text{m} = 2 \cdot 6\text{m}$$

7) Long Diagonal of Hexagon given Short Diagonal 

fx
$$d_{\text{Long}} = \frac{2}{\sqrt{3}} \cdot d_{\text{Short}}$$

Open Calculator 

ex
$$11.54701\text{m} = \frac{2}{\sqrt{3}} \cdot 10\text{m}$$



8) Short Diagonal of Hexagon ↗

fx $d_{\text{Short}} = (\sqrt{3}) \cdot l_e$

Open Calculator ↗

ex $10.3923m = (\sqrt{3}) \cdot 6m$

9) Short Diagonal of Hexagon given Long Diagonal ↗

fx $d_{\text{Short}} = \left(\frac{\sqrt{3}}{2} \right) \cdot d_{\text{Long}}$

Open Calculator ↗

ex $10.3923m = \left(\frac{\sqrt{3}}{2} \right) \cdot 12m$

10) Short Diagonal of Hexagon given Perimeter ↗

fx $d_{\text{Short}} = \frac{P}{2 \cdot \sqrt{3}}$

Open Calculator ↗

ex $10.3923m = \frac{36m}{2 \cdot \sqrt{3}}$



Edge Length of Hexagon ↗

11) Edge Length of Hexagon given Area ↗

$$fx \quad l_e = \sqrt{\left(\frac{2}{3 \cdot \sqrt{3}}\right) \cdot A}$$

[Open Calculator ↗](#)

$$ex \quad 6.046943m = \sqrt{\left(\frac{2}{3 \cdot \sqrt{3}}\right) \cdot 95m^2}$$

12) Edge Length of Hexagon given Height ↗

$$fx \quad l_e = \frac{h}{\sqrt{3}}$$

[Open Calculator ↗](#)

$$ex \quad 5.773503m = \frac{10m}{\sqrt{3}}$$

13) Edge Length of Hexagon given Inradius ↗

$$fx \quad l_e = \frac{2 \cdot r_i}{\sqrt{3}}$$

[Open Calculator ↗](#)

$$ex \quad 5.773503m = \frac{2 \cdot 5m}{\sqrt{3}}$$



14) Edge Length of Hexagon given Width ↗

$$fx \quad l_e = \frac{w}{2}$$

Open Calculator ↗

$$ex \quad 6m = \frac{12m}{2}$$

Height of Hexagon ↗**15) Height of Hexagon** ↗

$$fx \quad h = \sqrt{3} \cdot l_e$$

Open Calculator ↗

$$ex \quad 10.3923m = \sqrt{3} \cdot 6m$$

16) Height of Hexagon given Circumradius ↗

$$fx \quad h = \sqrt{3} \cdot r_c$$

Open Calculator ↗

$$ex \quad 10.3923m = \sqrt{3} \cdot 6m$$

17) Height of Hexagon given Inradius ↗

$$fx \quad h = 2 \cdot r_i$$

Open Calculator ↗

$$ex \quad 10m = 2 \cdot 5m$$



18) Height of Hexagon given Perimeter ↗

$$fx \quad h = \frac{P}{2 \cdot \sqrt{3}}$$

Open Calculator ↗

$$ex \quad 10.3923m = \frac{36m}{2 \cdot \sqrt{3}}$$

Perimeter of Hexagon ↗**19) Perimeter of Hexagon** ↗

$$fx \quad P = 6 \cdot l_e$$

Open Calculator ↗

$$ex \quad 36m = 6 \cdot 6m$$

20) Perimeter of Hexagon given Area ↗

$$fx \quad P = \sqrt{8 \cdot \sqrt{3} \cdot A}$$

Open Calculator ↗

$$ex \quad 36.28166m = \sqrt{8 \cdot \sqrt{3} \cdot 95m^2}$$

21) Perimeter of Hexagon given Width ↗

$$fx \quad P = 3 \cdot w$$

Open Calculator ↗

$$ex \quad 36m = 3 \cdot 12m$$



Radius of Hexagon ↗

22) Circumradius of Hexagon ↗

fx $r_c = \frac{l_e}{1}$

[Open Calculator ↗](#)

ex $6m = \frac{6m}{1}$

23) Circumradius of Hexagon given Height ↗

fx $r_c = \frac{h}{\sqrt{3}}$

[Open Calculator ↗](#)

ex $5.773503m = \frac{10m}{\sqrt{3}}$

24) Circumradius of Hexagon given Width ↗

fx $r_c = \frac{w}{2}$

[Open Calculator ↗](#)

ex $6m = \frac{12m}{2}$



25) Inradius of Hexagon **Open Calculator** 

fx $r_i = \frac{\sqrt{3}}{2} \cdot l_e$

ex $5.196152m = \frac{\sqrt{3}}{2} \cdot 6m$

26) Inradius of Hexagon given Circumradius **Open Calculator** 

fx $r_i = \frac{\sqrt{3}}{2} \cdot r_c$

ex $5.196152m = \frac{\sqrt{3}}{2} \cdot 6m$

Width of Hexagon **27) Width of Hexagon** **Open Calculator** 

fx $w = 2 \cdot l_e$

ex $12m = 2 \cdot 6m$

28) Width of Hexagon given Perimeter **Open Calculator** 

fx $w = \frac{P}{3}$

ex $12m = \frac{36m}{3}$



Variables Used

- **A** Area of Hexagon (*Square Meter*)
- **d_{Long}** Long Diagonal of Hexagon (*Meter*)
- **d_{Short}** Short Diagonal of Hexagon (*Meter*)
- **h** Height of Hexagon (*Meter*)
- **l_e** Edge Length of Hexagon (*Meter*)
- **P** Perimeter of Hexagon (*Meter*)
- **r_c** Circumradius of Hexagon (*Meter*)
- **r_i** Inradius of Hexagon (*Meter*)
- **w** Width of Hexagon (*Meter*)



Constants, Functions, Measurements used

- **Function:** **sqrt**, sqrt(Number)
Square root function
- **Measurement:** **Length** in Meter (m)
Length Unit Conversion ↗
- **Measurement:** **Area** in Square Meter (m^2)
Area Unit Conversion ↗



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