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Hexagram Formulas

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List of 20 Hexagram Formulas

Hexagram

Area of Hexagram

1) Area of Hexagram

$$\text{fx } A = 3 \cdot \sqrt{3} \cdot l_{\text{Chord Slice}}^2$$

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

$$\text{ex } 129.9038\text{m}^2 = 3 \cdot \sqrt{3} \cdot (5\text{m})^2$$

2) Area of Hexagram given Chord Length

$$\text{fx } A = \frac{l_c^2}{\sqrt{3}}$$

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

$$\text{ex } 129.9038\text{m}^2 = \frac{(15\text{m})^2}{\sqrt{3}}$$

3) Area of Hexagram given Hexagonal Edge Length

$$\text{fx } A = \sqrt{3} \cdot l_{\text{e(Hexagon)}}^2$$

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

$$\text{ex } 140.2961\text{m}^2 = \sqrt{3} \cdot (9\text{m})^2$$



4) Area of Hexagram given Perimeter

[Open Calculator !\[\]\(4729e517bc6a7cd81c8025b9646574fb_img.jpg\)](#)

$$\text{fx } A = \frac{\sqrt{3}}{48} \cdot P^2$$

$$\text{ex } 129.9038\text{m}^2 = \frac{\sqrt{3}}{48} \cdot (60\text{m})^2$$

Chord Length of Hexagram

5) Chord Length of Hexagram

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

$$\text{fx } l_c = \sqrt{3} \cdot l_{e(\text{Hexagon})}$$

$$\text{ex } 15.58846\text{m} = \sqrt{3} \cdot 9\text{m}$$

6) Chord Length of Hexagram given Area

[Open Calculator !\[\]\(0d5ec72f61334709c3fc9450209b754f_img.jpg\)](#)

$$\text{fx } l_c = \sqrt{\sqrt{3} \cdot A}$$

$$\text{ex } 15.00555\text{m} = \sqrt{\sqrt{3} \cdot 130\text{m}^2}$$

7) Chord Length of Hexagram given Chord Slice

[Open Calculator !\[\]\(b64b40baaee5acddc1eab8538ba84754_img.jpg\)](#)

$$\text{fx } l_c = 3 \cdot l_{\text{Chord Slice}}$$

$$\text{ex } 15\text{m} = 3 \cdot 5\text{m}$$



8) Chord Length of Hexagram given Perimeter

$$\text{fx } l_c = \frac{P}{4}$$

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

$$\text{ex } 15\text{m} = \frac{60\text{m}}{4}$$

Chord Slice of Hexagram 9) Chord Slice of Hexagram

$$\text{fx } l_{\text{Chord Slice}} = \frac{l_c}{3}$$

[Open Calculator !\[\]\(aa53ad6fea213b8b2226d3077e30533a_img.jpg\)](#)

$$\text{ex } 5\text{m} = \frac{15\text{m}}{3}$$

10) Chord Slice of Hexagram given Area

$$\text{fx } l_{\text{Chord Slice}} = \sqrt{\frac{A}{3 \cdot \sqrt{3}}}$$

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

$$\text{ex } 5.001851\text{m} = \sqrt{\frac{130\text{m}^2}{3 \cdot \sqrt{3}}}$$



11) Chord Slice of Hexagram given Hexagonal Edge Length

$$\text{fx } l_{\text{Chord Slice}} = \frac{l_{\text{e(Hexagon)}}}{\sqrt{3}}$$

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

$$\text{ex } 5.196152\text{m} = \frac{9\text{m}}{\sqrt{3}}$$

12) Chord Slice of Hexagram given Perimeter

$$\text{fx } l_{\text{Chord Slice}} = \frac{P}{12}$$

[Open Calculator !\[\]\(0b5e7e25e8775f7e7e80906ada4f0021_img.jpg\)](#)

$$\text{ex } 5\text{m} = \frac{60\text{m}}{12}$$

Edge Length of Hexagram

13) Hexagonal Edge Length of Hexagram given Area

$$\text{fx } l_{\text{e(Hexagon)}} = \sqrt{\frac{A}{\sqrt{3}}}$$

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

$$\text{ex } 8.66346\text{m} = \sqrt{\frac{130\text{m}^2}{\sqrt{3}}}$$



14) Hexagonal Edge Length of Hexagram given Chord Length

$$\text{fx } l_{\text{e(Hexagon)}} = \frac{l_{\text{c}}}{\sqrt{3}}$$

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

$$\text{ex } 8.660254\text{m} = \frac{15\text{m}}{\sqrt{3}}$$

15) Hexagonal Edge Length of Hexagram given Chord Slice

$$\text{fx } l_{\text{e(Hexagon)}} = \sqrt{3} \cdot l_{\text{Chord Slice}}$$

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

$$\text{ex } 8.660254\text{m} = \sqrt{3} \cdot 5\text{m}$$

16) Hexagonal Edge Length of Hexagram given Perimeter

$$\text{fx } l_{\text{e(Hexagon)}} = \frac{P}{4 \cdot \sqrt{3}}$$

[Open Calculator !\[\]\(ab4e2b3fc7e7887b7a72f548aa6f5e60_img.jpg\)](#)

$$\text{ex } 8.660254\text{m} = \frac{60\text{m}}{4 \cdot \sqrt{3}}$$

Perimeter of Hexagram

17) Perimeter of Hexagram

$$\text{fx } P = 12 \cdot l_{\text{Chord Slice}}$$

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

$$\text{ex } 60\text{m} = 12 \cdot 5\text{m}$$



18) Perimeter of Hexagram given Area

$$\text{fx } P = 4 \cdot \sqrt{\sqrt{3} \cdot A}$$

[Open Calculator](#) 

$$\text{ex } 60.02221\text{m} = 4 \cdot \sqrt{\sqrt{3} \cdot 130\text{m}^2}$$

19) Perimeter of Hexagram given Chord Length

$$\text{fx } P = 4 \cdot l_c$$

[Open Calculator](#) 

$$\text{ex } 60\text{m} = 4 \cdot 15\text{m}$$

20) Perimeter of Hexagram given Hexagonal Edge Length

$$\text{fx } P = 4 \cdot \sqrt{3} \cdot l_{e(\text{Hexagon})}$$

[Open Calculator](#) 

$$\text{ex } 62.35383\text{m} = 4 \cdot \sqrt{3} \cdot 9\text{m}$$



Variables Used

- **A** Area of Hexagram (Square Meter)
- **I_c** Chord Length of Hexagram (Meter)
- **$I_{\text{Chord Slice}}$** Chord Slice Length of Hexagram (Meter)
- **$I_e(\text{Hexagon})$** Hexagonal Edge Length of Hexagram (Meter)
- **P** Perimeter of Hexagram (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 (m²)
Area Unit Conversion 



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