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# Hexagram Formulas

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# List of 20 Hexagram Formulas

## Hexagram

### Area of Hexagram

#### 1) Area of Hexagram

Open Calculator

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

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

#### 2) Area of Hexagram given Chord Length

Open Calculator

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

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

#### 3) Area of Hexagram given Hexagonal Edge Length

Open Calculator

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

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

### 4) Area of Hexagram given Perimeter

Open Calculator

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

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

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

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

### 6) Chord Length of Hexagram given Area

Open Calculator

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

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

### 7) Chord Length of Hexagram given Chord Slice

Open Calculator

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

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

### 8) Chord Length of Hexagram given Perimeter

Open Calculator

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

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

## Chord Slice of Hexagram

### 9) Chord Slice of Hexagram

Open Calculator

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

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

### 10) Chord Slice of Hexagram given Area

Open Calculator

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

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

### 11) Chord Slice of Hexagram given Hexagonal Edge Length

Open Calculator

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

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

### 12) Chord Slice of Hexagram given Perimeter

Open Calculator

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

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

## Edge Length of Hexagram

### 13) Hexagonal Edge Length of Hexagram given Area

Open Calculator

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

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

### 14) Hexagonal Edge Length of Hexagram given Chord Length

Open Calculator

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

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

### 15) Hexagonal Edge Length of Hexagram given Chord Slice

Open Calculator

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

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

### 16) Hexagonal Edge Length of Hexagram given Perimeter

Open Calculator

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

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

## Perimeter of Hexagram

### 17) Perimeter of Hexagram

Open Calculator

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

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

## 18) Perimeter of Hexagram given Area

Open Calculator

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

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

## 19) Perimeter of Hexagram given Chord Length

Open Calculator

fx $$P = 4 \cdot l_c$$

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

## 20) Perimeter of Hexagram given Hexagonal Edge Length

Open Calculator

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

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

# Variables Used

- **A** Area of Hexagram *(Square Meter)*
- $l_c$ Chord Length of Hexagram *(Meter)*
- $l_{\text{Chord Slice}}$ Chord Slice Length of Hexagram *(Meter)*
- $l_{e(\text{Hexagon})}$ 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*

## Check other formula lists

- Annulus Formulas
- Antiparallelogram Formulas
- Arrow Hexagon Formulas
- Astroid Formulas
- Bulge Formulas
- Cardioid Formulas
- Circular Arc Quadrangle Formulas
- Concave Pentagon Formulas
- Concave Quadrilateral Formulas
- Concave Regular Hexagon Formulas
- Concave Regular Pentagon Formulas
- Crossed Rectangle Formulas
- Cut Rectangle Formulas
- Cyclic Quadrilateral Formulas
- Cycloid Formulas
- Decagon Formulas
- Dodecagon Formulas
- Double Cycloid Formulas
- Fourstar Formulas
- Frame Formulas
- Golden Rectangle Formulas
- Grid Formulas
- H Shape Formulas
- Half Yin-Yang Formulas
- Heart Shape Formulas
- Hendecagon Formulas
- Heptagon Formulas
- Hexadecagon Formulas
- Hexagon Formulas
- Hexagram Formulas
- House Shape Formulas
- Hyperbola Formulas
- Hypocycloid Formulas
- Isosceles Trapezoid Formulas
- Koch Curve Formulas
- L Shape Formulas
- Line Formulas
- Lune Formulas
- N-gon Formulas
- Nonagon Formulas
- Octagon Formulas
- Octagram Formulas
- Open Frame Formulas
- Parallelogram Formulas
- Pentagon Formulas
- Pentagram Formulas
- Polygram Formulas
- Quadrilateral Formulas
- Quarter Circle Formulas
- Rectangle Formulas

- Rectangular Hexagon Formulas
- Regular Polygon Formulas
- Reuleaux Triangle Formulas
- Rhombus Formulas
- Right Trapezoid Formulas
- Round Corner Formulas
- Salinon Formulas
- Semicircle Formulas
- Sharp Kink Formulas
- Square Formulas
- Star of Lakshmi Formulas
- Stretched Hexagon Formulas
- T Shape Formulas
- Tangential Quadrilateral Formulas
- Trapezoid Formulas
- Tricorn Formulas
- Tri-equilateral Trapezoid Formulas
- Truncated Square Formulas
- Unicursal Hexagram Formulas
- X Shape Formulas

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