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Arrow Hexagon Formulas

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List of 9 Arrow Hexagon Formulas

Arrow Hexagon

1) Area of Arrow Hexagon

Open Calculator

fx $$A = \frac{(h_{Total} \cdot w_{Base}) - (h_{Gap} \cdot w_{Gap})}{2}$$

ex $$32\text{m}^2 = \frac{(11\text{m} \cdot 9\text{m}) - (7\text{m} \cdot 5\text{m})}{2}$$

2) Base Width of Arrow Hexagon

Open Calculator

fx $$w_{Base} = \sqrt{2 \cdot S_{Long}^2 \cdot (1 - \cos(\angle_{Top}))}$$

ex $$7.653669\text{m} = \sqrt{2 \cdot (10\text{m})^2 \cdot (1 - \cos(45^\circ))}$$

3) Base Width of Arrow Hexagon given Base Side

Open Calculator

fx $$w_{Base} = 2 \cdot S_{Base} + w_{Gap}$$

ex $$9\text{m} = 2 \cdot 2\text{m} + 5\text{m}$$

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4) Gap Height of Arrow Hexagon

Open Calculator

fx $$h_{Gap} = \sqrt{\frac{\left(4 \cdot S_{Short}^2\right) - w_{Gap}^2}{4}}$$

ex $$5.454356\text{m} = \sqrt{\frac{\left(4 \cdot (6\text{m})^2\right) - (5\text{m})^2}{4}}$$

5) Gap Height of Arrow Hexagon given Total Height

Open Calculator

fx $$h_{Gap} = h_{Total} - h_{Top}$$

ex $$7\text{m} = 11\text{m} - 4\text{m}$$

6) Perimeter of Arrow Hexagon

Open Calculator

fx $$P = 2 \cdot (S_{Long} + S_{Base} + S_{Short})$$

ex $$36\text{m} = 2 \cdot (10\text{m} + 2\text{m} + 6\text{m})$$

7) Short Sides of Arrow Hexagon

Open Calculator

fx $$S_{Short} = \sqrt{\frac{w_{Gap}^2}{2 \cdot (1 - \cos(\angle_{Top}))}}$$

ex $$6.532815\text{m} = \sqrt{\frac{(5\text{m})^2}{2 \cdot (1 - \cos(45^\circ))}}$$

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8) Top Height of Arrow Hexagon

Open Calculator

fx $$h_{Top} = h_{Total} - h_{Gap}$$

ex $$4\text{m} = 11\text{m} - 7\text{m}$$

9) Total Height of Arrow Hexagon

Open Calculator

fx $$h_{Total} = \sqrt{\frac{\left(4 \cdot S_{Long}^2\right) - w_{Base}^2}{4}}$$

ex $$8.930286\text{m} = \sqrt{\frac{\left(4 \cdot (10\text{m})^2\right) - (9\text{m})^2}{4}}$$

Variables Used

- $\angle_{Top}$ Top Angle of Arrow Hexagon *(Degree)*
- **A** Area of Arrow Hexagon *(Square Meter)*
- h_{Gap} Gap Height of Arrow Hexagon *(Meter)*
- h_{Top} Top Height of Arrow Hexagon *(Meter)*
- h_{Total} Total Height of Arrow Hexagon *(Meter)*
- **P** Perimeter of Arrow Hexagon *(Meter)*
- S_{Base} Base Side of Arrow Hexagon *(Meter)*
- S_{Long} Long Side of Arrow Hexagon *(Meter)*
- S_{Short} Short Side of Arrow Hexagon *(Meter)*
- w_{Base} Base Width of Arrow Hexagon *(Meter)*
- w_{Gap} Gap Width of Arrow Hexagon *(Meter)*

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Constants, Functions, Measurements used

- Function: **cos**, cos(Angle)
  Cosine of an angle is the ratio of the side adjacent to the angle to the hypotenuse of the triangle.
- Function: **sqrt**, sqrt(Number)
  A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.
- Measurement: **Length** in Meter (m)
  Length Unit Conversion
- Measurement: **Area** in Square Meter (m²)
  Area Unit Conversion
- Measurement: **Angle** in Degree (°)
  Angle Unit Conversion

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- Dodecagon Formulas
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- Hexagon Formulas
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