



House Shape Formulas

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Examples!

Conversions!

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List of 10 House Shape Formulas

House Shape 🗗

1) Area of House Shape

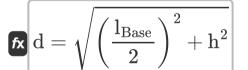
$$oxed{A} = \left(l_{\mathrm{Base}} \cdot h_{\mathrm{Wall}}
ight) + \left(h_{\mathrm{Roof}} \cdot rac{l_{\mathrm{Base}}}{2}
ight)$$

Open Calculator

- $extbf{ex} \left[172.5 ext{m}^2 = \left(15 ext{m} \cdot 10 ext{m}
 ight) + \left(3 ext{m} \cdot rac{15 ext{m}}{2}
 ight)
 ight]$
- 2) Base Length of House Shape given Perimeter
- $m l_{Base} = P (2 \cdot h_{Wall}) (2 \cdot S_{Roof})$

Open Calculator 🚰

- $= 14 \text{m} = 50 \text{m} (2 \cdot 10 \text{m}) (2 \cdot 8 \text{m})$
- 3) Diagonal of House Shape



Open Calculator

$$extbf{ex} 15.00833 ext{m} = \sqrt{\left(rac{15 ext{m}}{2}
ight)^2 + (13 ext{m})^2}$$



4) Diagonal of Rectangle of House Shape

$$ext{d}_{ ext{Rectangle}} = \sqrt{l_{ ext{Base}}^2 + h_{ ext{Wall}}^2}$$

Open Calculator 🚰

$$extbf{ex} 18.02776 ext{m} = \sqrt{\left(15 ext{m}
ight)^2 + \left(10 ext{m}
ight)^2}$$

5) Height of House Shape

fx
$$h = h_{
m Roof} + h_{
m Wall}$$

$$\boxed{\mathbf{ex}} \ 13\mathrm{m} = 3\mathrm{m} + 10\mathrm{m}$$

6) Perimeter of House Shape

$$ag{P} = l_{ ext{Base}} + (2 \cdot h_{ ext{Wall}}) + (2 \cdot S_{ ext{Roof}})$$

 $= 15m + (2 \cdot 10m) + (2 \cdot 8m)$

Open Calculator

7) Roof Height of House Shape

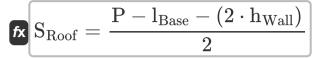
$$\mathbf{h}_{\mathrm{Roof}} = \sqrt{rac{\left(4 \cdot \mathrm{S_{Roof}^2}
ight) - \mathrm{l_{Base}^2}}{4}}$$

$$=$$
 2.783882m $=$ $\sqrt{rac{\left(4\cdot(8 ext{m})^2
ight)-\left(15 ext{m}
ight)^2}{4}}$



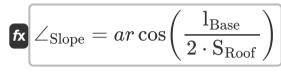


8) Roof Side of House Shape given Perimeter



Open Calculator

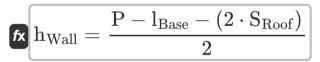
9) Slope of House Shape



Open Calculator

$$20.36413° = ar \cos \left(\frac{15\text{m}}{2 \cdot 8\text{m}}\right)$$

10) Wall Height of House Shape given Perimeter



Open Calculator

$$=$$
 $\frac{50 \mathrm{m} - 15 \mathrm{m} - (2 \cdot 8 \mathrm{m})}{2}$



Variables Used

- ∠Slope Slope Angle of House Shape (Degree)
- A Area of House Shape (Square Meter)
- **d** Diagonal of House Shape (Meter)
- d_{Rectangle} Diagonal of Rectangle of House Shape (Meter)
- **h** Height of House Shape (Meter)
- h_{Roof} Roof Height of House Shape (Meter)
- hwall Wall Height of House Shape (Meter)
- IBase Base Length of House Shape (Meter)
- P Perimeter of House Shape (Meter)
- S_{Roof} Roof Side of House Shape (Meter)





Constants, Functions, Measurements used

- Function: arcos, arcos(Number)
 Inverse trigonometric cosine function
- Function: cos, cos(Angle)

 Trigonometric cosine function
- Function: sqrt, sqrt(Number)
 Square root function
- Measurement: Length in Meter (m)

 Length Unit Conversion
- Measurement: Area in Square Meter (m²)

 Area Unit Conversion
- Measurement: Angle in Degree (°)
 Angle 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 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

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- Hexagram Formulas 🖒
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- Hyperbola Formulas
- Hypocycloid Formulas
- Isosceles Trapezoid Formulas
- L Shape Formulas
- Line Formulas
- N-gon Formulas
- Nonagon Formulas
- Octagon 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 💪
- T Shape Formulas

- Tangential Quadrilateral Formulas
- Trapezoid Formulas
- Tri-equilateral Trapezoid
 Formulas
- Truncated Square Formulas
- Unicursal Hexagram Formulas
- X Shape Formulas

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