Grid Formulas... 1/10





Grid Formulas

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List of 12 Grid Formulas

Grid 🛂

Area and Perimeter of Grid

1) Area of Grid

1) Area of Grid C

fx

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 $\mathbf{A} = (\mathbf{l}_{ ext{Rectangle}} \cdot \mathbf{w}_{ ext{Rectangle}}) - \left(\mathbf{N}_{ ext{l}} \cdot \mathbf{N}_{ ext{w}} \cdot \mathbf{l}_{ ext{e(Hole)}}^2
ight)$

 $oxed{ex} 804 \mathrm{m}^2 = (33 \mathrm{m} \cdot 28 \mathrm{m}) - \left(6 \cdot 5 \cdot (2 \mathrm{m})^2\right)$

2) Perimeter of Grid

2) Perimeter of Grid 🖰

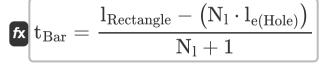
 $\overline{\mathrm{P}} = \left(2 \cdot \left(\mathrm{l_{Rectangle}} + \mathrm{w_{Rectangle}}\right)\right) + \left(4 \cdot \mathrm{N_l} \cdot \mathrm{N_w} \cdot \mathrm{l_{e(Hole)}}\right)$

 $= (2 \cdot (33 \mathrm{m} + 28 \mathrm{m})) + (4 \cdot 6 \cdot 5 \cdot 2 \mathrm{m})$



Bar Thickness of Grid

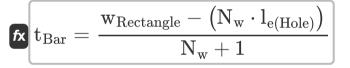
3) Bar Thickness of Grid given Rectangle Length and Edge Length of Hole



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$$3m = \frac{33m - (6 \cdot 2m)}{6 + 1}$$

4) Bar Thickness of Grid given Rectangle Width and Edge Length of Hole



Open Calculator 🗗

$$=$$
 3 m $=$ $\frac{28$ m $(5 \cdot 2$ m $)}{5 + 1}$

Edge Length of Grid Hole 🗗

5) Edge Length of Hole in Grid given Rectangle Length and Number of Holes in Length

$$l_{
m e(Hole)} = rac{l_{
m Rectangle} - ((N_{
m l}+1) \cdot t_{
m Bar})}{N_{
m l}}$$

Open Calculator 🗗

$$2m = \frac{33m - ((6+1) \cdot 3m)}{6}$$





6) Edge Length of Hole in Grid given Rectangle Width and Number of Holes in Width

 $ho_{
m e(Hole)} = rac{{
m w_{Rectangle} - ((N_{
m w}+1) \cdot t_{
m Bar})}}{{
m N_{
m w}}}$

Open Calculator 🗗

 $2m = \frac{28m - ((5+1) \cdot 3m)}{5}$

Number of Holes in Grid

7) Number of Holes in Length of Grid

 $N_{
m l} = rac{l_{
m Rectangle} - t_{
m Bar}}{l_{
m e(Hole)} + t_{
m Bar}}$

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 $\mathbf{ex} = \frac{33\mathrm{m} - 3\mathrm{m}}{2\mathrm{m} + 3\mathrm{m}}$

8) Number of Holes in Width of Grid

 $N_{
m w} = rac{{
m w}_{
m Rectangle} - {
m t}_{
m Bar}}{{
m l}_{
m e(Hole)} + {
m t}_{
m Bar}}$

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$$\mathbf{ex} = \frac{28m - 3m}{2m + 3m}$$



fx

fx

Rectangle Measures of Grid

9) Rectangle Length of Grid

 $\mathbf{k} \left[l_{ ext{Rectangle}} = \left(N_{ ext{l}} \cdot l_{ ext{e(Hole)}}
ight) + \left(\left(N_{ ext{l}} + 1
ight) \cdot t_{ ext{Bar}}
ight)
ight]$

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 $| (6 \cdot 2m) + ((6+1) \cdot 3m) |$

10) Rectangle Length of Grid given Perimeter and Width of Rectangle

 $\overline{ l_{ ext{Rectangle}} = rac{ ext{P} - \left(2 \cdot ext{w}_{ ext{Rectangle}}
ight) - \left(4 \cdot ext{N}_{ ext{l}} \cdot ext{N}_{ ext{w}} \cdot ext{l}_{ ext{e(Hole)}}
ight) } }$

11) Rectangle Width of Grid

 $\mathrm{w}_{\mathrm{Rectangle}} = \left(\mathrm{N}_{\mathrm{w}} \cdot \mathrm{l}_{\mathrm{e(Hole)}}
ight) + \left(\left(\mathrm{N}_{\mathrm{w}} + 1
ight) \cdot \mathrm{t}_{\mathrm{Bar}}
ight)$

 $28m = (5 \cdot 2m) + ((5+1) \cdot 3m)$



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12) Rectangle Width of Grid given Perimeter and Length of Rectangle



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$$ext{w}_{ ext{Rectangle}} = rac{ ext{P} - \left(2 \cdot ext{l}_{ ext{Rectangle}}
ight) - \left(4 \cdot ext{N}_{ ext{l}} \cdot ext{N}_{ ext{w}} \cdot ext{l}_{ ext{e(Hole)}}
ight)}{2}$$

 $27 ext{m} = rac{360 ext{m} - (2 \cdot 33 ext{m}) - (4 \cdot 6 \cdot 5 \cdot 2 ext{m})}{2}$



Grid Formulas...

Variables Used

- A Area of Grid (Square Meter)
- I_{e(Hole)} Edge Length of Grid Hole (Meter)
- IRectangle Length of Grid Rectangle (Meter)
- NI Number of Holes in Length of Grid
- N_w Number of Holes in Width of Grid
- P Perimeter of Grid (Meter)
- t_{Bar} Bar Thickness of Grid (Meter)
- WRectangle Width of Grid Rectangle (Meter)





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Grid Formulas... 8/10

Constants, Functions, Measurements used

• Measurement: Length in Meter (m)
Length Unit Conversion

• Measurement: Area in Square Meter (m²)

Area Unit Conversion





Grid Formulas... 9/10

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

- Hendecagon Formulas
- Heptagon Formulas
- Hexadecagon Formulas
- Hexagon Formulas
- Hexagram Formulas
- House Shape Formulas
- 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





Grid Formulas... 10/10

- 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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