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Golden Rectangle Formulas

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List of 20 Golden Rectangle Formulas

Golden Rectangle

Area of Golden Rectangle

1) Area of Golden Rectangle

Open Calculator

fx $$A = \frac{l^2}{[phi]}$$

ex $$61.8034\text{m}^2 = \frac{(10\text{m})^2}{[phi]}$$

2) Area of Golden Rectangle given Breadth

Open Calculator

fx $$A = [phi] \cdot b^2$$

ex $$58.24922\text{m}^2 = [phi] \cdot (6\text{m})^2$$

3) Area of Golden Rectangle given Diagonal

Open Calculator

fx $$A = \frac{[phi]}{1 + [phi]^2} \cdot d^2$$

ex $$64.39876\text{m}^2 = \frac{[phi]}{1 + [phi]^2} \cdot (12\text{m})^2$$

4) Area of Golden Rectangle given Perimeter

Open Calculator

fx $$A = [\text{phi}] \cdot \left(\frac{P}{2 \cdot (1 + [\text{phi}])} \right)^2$$

ex $$53.11529\text{m}^2 = [\text{phi}] \cdot \left(\frac{30\text{m}}{2 \cdot (1 + [\text{phi}])} \right)^2$$

Diagonal of Golden Rectangle

5) Diagonal of Golden Rectangle

Open Calculator

fx $$d = \sqrt{1 + \frac{1}{[\text{phi}]^2}} \cdot l$$

ex $$11.75571\text{m} = \sqrt{1 + \frac{1}{[\text{phi}]^2}} \cdot 10\text{m}$$

6) Diagonal of Golden Rectangle given Area

Open Calculator

fx $$d = \sqrt{\left([\text{phi}] + \frac{1}{[\text{phi}]} \right) \cdot A}$$

ex $$11.58292\text{m} = \sqrt{\left([\text{phi}] + \frac{1}{[\text{phi}]} \right) \cdot 60\text{m}^2}$$

7) Diagonal of Golden Rectangle given Breadth

Open Calculator

fx $$d = \sqrt{[phi]^2 + 1} \cdot b$$

ex $$11.41268\text{m} = \sqrt{[phi]^2 + 1} \cdot 6\text{m}$$

8) Diagonal of Golden Rectangle given Perimeter

Open Calculator

fx $$d = \frac{\sqrt{[phi]^2 + 1}}{2 \cdot ([phi] + 1)} \cdot P$$

ex $$10.89814\text{m} = \frac{\sqrt{[phi]^2 + 1}}{2 \cdot ([phi] + 1)} \cdot 30\text{m}$$

Perimeter of Golden Rectangle

9) Perimeter of Golden Rectangle

Open Calculator

fx $$P = 2 \cdot \left(1 + \frac{1}{[phi]}\right) \cdot l$$

ex $$32.36068\text{m} = 2 \cdot \left(1 + \frac{1}{[phi]}\right) \cdot 10\text{m}$$

10) Perimeter of Golden Rectangle given Area

Open Calculator

fx $$P = 2 \cdot \left(1 + \frac{1}{[phi]}\right) \cdot \sqrt{[phi] \cdot A}$$

ex $$31.88505\text{m} = 2 \cdot \left(1 + \frac{1}{[phi]}\right) \cdot \sqrt{[phi] \cdot 60\text{m}^2}$$

11) Perimeter of Golden Rectangle given Breadth

Open Calculator

fx $$P = 2 \cdot (1 + [phi]) \cdot b$$

ex $$31.41641\text{m} = 2 \cdot (1 + [phi]) \cdot 6\text{m}$$

12) Perimeter of Golden Rectangle given Diagonal

Open Calculator

fx $$P = \frac{2 \cdot ([phi] + 1)}{\sqrt{[phi]^2 + 1}} \cdot d$$

ex $$33.03317\text{m} = \frac{2 \cdot ([phi] + 1)}{\sqrt{[phi]^2 + 1}} \cdot 12\text{m}$$

Side of Golden Rectangle

Breadth of Golden Rectangle

13) Breadth of Golden Rectangle

Open Calculator

fx $$b = \frac{l}{[phi]}$$

ex $$6.18034\text{m} = \frac{10\text{m}}{[phi]}$$

14) Breadth of Golden Rectangle given Area

Open Calculator

fx $$b = \sqrt{\frac{A}{[phi]}}$$

ex $$6.089502\text{m} = \sqrt{\frac{60\text{m}^2}{[phi]}}$$

15) Breadth of Golden Rectangle given Diagonal

Open Calculator

fx $$b = \frac{d}{\sqrt{1 + [phi]^2}}$$

ex $$6.308773\text{m} = \frac{12\text{m}}{\sqrt{1 + [phi]^2}}$$

16) Breadth of Golden Rectangle given Perimeter

Open Calculator

fx $$b = \frac{P}{2 \cdot (1 + [phi])}$$

ex $$5.72949\text{m} = \frac{30\text{m}}{2 \cdot (1 + [phi])}$$

Length of Golden Rectangle

17) Length of Golden Rectangle

Open Calculator

fx $$l = [phi] \cdot b$$

ex $$9.708204\text{m} = [phi] \cdot 6\text{m}$$

18) Length of Golden Rectangle given Area

Open Calculator

fx $$l = \sqrt{[phi] \cdot A}$$

ex $$9.853022\text{m} = \sqrt{[phi] \cdot 60\text{m}^2}$$

19) Length of Golden Rectangle given Diagonal

Open Calculator

fx $$l = \frac{[phi]}{\sqrt{1 + [phi]^2}} \cdot d$$

ex $$10.20781\text{m} = \frac{[phi]}{\sqrt{1 + [phi]^2}} \cdot 12\text{m}$$

20) Length of Golden Rectangle given Perimeter

Open Calculator

fx $$l = \frac{[phi]}{2 \cdot (1 + [phi])} \cdot P$$

ex $$9.27051\text{m} = \frac{[phi]}{2 \cdot (1 + [phi])} \cdot 30\text{m}$$

Variables Used

- **A** Area of Golden Rectangle *(Square Meter)*
- **b** Breadth of Golden Rectangle *(Meter)*
- **d** Diagonal of Golden Rectangle *(Meter)*
- **l** Length of Golden Rectangle *(Meter)*
- **P** Perimeter of Golden Rectangle *(Meter)*

Constants, Functions, Measurements used

- Constant: **[phi]**, 1.61803398874989484820458683436563811
  Golden ratio
- 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
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- Hypocycloid Formulas
- Isosceles Trapezoid Formulas
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- 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
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