



# **Square Formulas**

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#### **List of 56 Square Formulas**

### Square 🗗

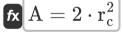
#### Area of Square

1) Area of Square

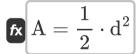
fx 
$$A=l_{
m e}^2$$

 $\boxed{\mathbf{ex} \left[ 100 \mathrm{m}^2 = \left( 10 \mathrm{m} \right)^2 \right]}$ 





 $\boxed{\textbf{ex}} \ 98 \text{m}^{\scriptscriptstyle 2} = 2 \cdot (7 \text{m})^2$ 



 $98\text{m}^2 = \frac{1}{2} \cdot (14\text{m})^2$ 

Open Calculator



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## 4) Area of Square given Diameter of Circumcircle

- $oldsymbol{ ilde{k}} oldsymbol{ ext{A}} = rac{ ext{D}_{ ext{c}}^2}{2}$
- $\boxed{98\mathrm{m}^{2}=\frac{\left(14\mathrm{m}\right)^{2}}{2}}$
- 98117 = -2
- 5) Area of Square given Diameter of Incircle
- fx  $A=D_{
  m i}^2$  ex  $100{
  m m}^2={(10{
  m m})}^2$
- 6) Area of Square given Inradius
- $f x f A = 4 \cdot r_i^2$
- $\boxed{\texttt{ex} \left[100 \text{m}^2 = 4 \cdot \left(5 \text{m}\right)^2\right]}$
- 7) Area of Square given Perimeter
- $\mathbf{A} = rac{1}{16} \cdot \mathrm{P}^2$
- $100 \mathrm{m}^2 = \frac{1}{16} \cdot (40 \mathrm{m})^2$



### Diagonal of Square 2

- 8) Diagonal of Square
- fx  $\mathrm{d} = \sqrt{2} \cdot \mathrm{l_e}$

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- = 14.14214 $m = \sqrt{2} \cdot 10 m$
- 9) Diagonal of Square given Area
- fx  $d = \sqrt{2 \cdot A}$

Open Calculator

- ex  $14.14214 \mathrm{m} = \sqrt{2 \cdot 100 \mathrm{m}^2}$
- 10) Diagonal of Square given Circumradius
- fx  $d=2\cdot r_{c}$

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- $ex 14m = 2 \cdot 7m$
- 11) Diagonal of Square given Diameter of Circumcircle
- $\mathbf{f} \mathbf{x} = \frac{\mathrm{D_c}}{\mathrm{1}}$

Open Calculator

 $\boxed{14m = \frac{14m}{1}}$ 



Open Calculator

Open Calculator

Open Calculator

# 12) Diagonal of Square given Diameter of Incircle

fx  $d = \sqrt{2} \cdot D_i$ = 14.14214m =  $\sqrt{2} \cdot 10$ m

13) Diagonal of Square given Inradius 🗗

fx  $d=2\cdot\sqrt{2}\cdot r_{i}$ 

 $| 14.14214m = 2 \cdot \sqrt{2} \cdot 5m |$ 

14) Diagonal of Square given Perimeter 🗗

fx  $d = rac{P}{2 \cdot \sqrt{2}}$ 

= 14.14214m =  $\frac{40\text{m}}{2 \cdot \sqrt{2}}$ Diameter of Square

Diameter of Circumcircle of Square

15) Diameter of Circumcircle of Square fx  $D_{
m c} = \sqrt{2} \cdot l_{
m e}$ 



= 14.14214=  $\sqrt{2} \cdot 10 m$ 

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## 16) Diameter of Circumcircle of Square given Area

fx  $D_c = \sqrt{2 \cdot A}$ 

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ex  $14.14214 \mathrm{m} = \sqrt{2 \cdot 100 \mathrm{m}^2}$ 

17) Diameter of Circumcircle of Square given Circumradius

fx  $D_{
m c}=2\cdot {
m r_c}$ 

Open Calculator 2

 $| 14m = 2 \cdot 7m$ 

18) Diameter of Circumcircle of Square given Diagonal 🗗

 $\mathbf{f}\mathbf{x} \left[ \mathrm{D_c} = rac{\mathrm{d}}{\mathrm{1}} 
ight]$ 

Open Calculator 2

 $14m = \frac{14m}{1}$ 

19) Diameter of Circumcircle of Square given Diameter of Incircle

fx  $\left| \mathrm{D_c} = \sqrt{2} \cdot \mathrm{D_i} 
ight|$ 

Open Calculator 2

[200]  $[14.14214 \mathrm{m}] = \sqrt{2} \cdot 10 \mathrm{m}$ 

# 20) Diameter of Circumcircle of Square given Inradius 💪

fx  $D_{
m c} = 2 \cdot \sqrt{2} \cdot {
m r_i}$ 

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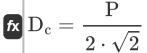
 $| 14.14214m = 2 \cdot \sqrt{2} \cdot 5m |$ 







#### 21) Diameter of Circumcircle of Square given Perimeter



Open Calculator

Open Calculator

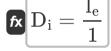
Open Calculator G

Open Calculator 2

ex  $14.14214 \mathrm{m} = rac{40 \mathrm{m}}{2 \cdot \sqrt{2}}$ 

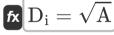
### Diameter of Incircle of Square

### 22) Diameter of Incircle of Square



$$\boxed{10\text{m} = \frac{10\text{m}}{1}}$$

#### 23) Diameter of Incircle of Square given Area 🔽



$$\boxed{\text{ex} \ 10\text{m} = \sqrt{100\text{m}^2}}$$

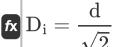
# 24) Diameter of Incircle of Square given Circumradius

fx 
$$D_{
m i} = \sqrt{2} \cdot r_{
m c}$$

$$\boxed{\texttt{ex} \ 9.899495 \texttt{m} = \sqrt{2} \cdot 7 \texttt{m}}$$



#### 25) Diameter of Incircle of Square given Diagonal



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# 26) Diameter of Incircle of Square given Diameter of Circumcircle

 $\mathrm{D_i} = rac{\mathrm{D_c}}{\sqrt{2}}$ 

Open Calculator

 $= \frac{9.899495 \text{m}}{\sqrt{2}}$ 

#### 27) Diameter of Incircle of Square given Inradius

fx  $D_{
m i}=2\cdot r_{
m i}$ 

Open Calculator

ex  $10 \mathrm{m} = 2 \cdot 5 \mathrm{m}$ 

#### 28) Diameter of Incircle of Square given Perimeter

extstyle ext

Open Calculator

 $\boxed{10\mathrm{m} = \frac{40\mathrm{m}}{4}}$ 

## Edge of Square

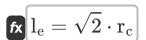
29) Edge Length of Square given Area

fx 
$$l_{e}=\sqrt{A}$$

Open Calculator

$$\boxed{10\mathrm{m} = \sqrt{100\mathrm{m}^2}}$$

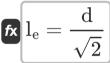
30) Edge Length of Square given Circumradius



Open Calculator

$$\boxed{\textbf{ex} \left[9.899495\text{m} = \sqrt{2} \cdot 7\text{m}\right]}$$

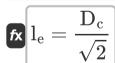
## 31) Edge Length of Square given Diagonal 🛂



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# $= \frac{9.899495 \text{m}}{\sqrt{2}}$

#### 32) Edge Length of Square given Diameter of Circumcircle



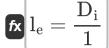
$$9.899495m = \frac{14m}{\sqrt{2}}$$





Open Calculator 2

#### 33) Edge Length of Square given Diameter of Incircle 🗗



$$\boxed{10\mathrm{m} = \frac{10\mathrm{m}}{1}}$$

34) Edge Length of Square given Inradius 🗗

fx  $m l_e = 2 \cdot r_i$ 

Open Calculator

35) Edge Length of Square given Perimeter 🖸

fx  $l_{
m e}=rac{
m P}{4}$ 

 $10m = \frac{40m}{4}$ 

Perimeter of Square



 $\left[ \mathbf{fx} 
ight] \mathrm{P} = 4 \cdot \mathrm{l_e}$ 

 $| 40m = 4 \cdot 10m$ 



#### 37) Perimeter of Square given Area

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

Open Calculator

Open Calculator

Open Calculator

Open Calculator 2

Open Calculator

 $\boxed{\text{ex}} \ 40 \text{m} = 4 \cdot \sqrt{100 \text{m}^2}$ 

38) Perimeter of Square given Circumradius

fx  $P=4\cdot\sqrt{2}\cdot r_{
m c}$ 

 $| \mathbf{ex} | 39.59798$ m  $= 4 \cdot \sqrt{2} \cdot 7$ m

fx  $P=2\cdot\sqrt{2}\cdot d$ 

39) Perimeter of Square given Diagonal

**ex**  $39.59798m = 2 \cdot \sqrt{2} \cdot 14m$ 

fx  $P=2\cdot\sqrt{2}\cdot D_{c}$ 

[8] 39.59798m =  $2 \cdot \sqrt{2} \cdot 14$ m

40) Perimeter of Square given Diameter of Circumcircle

41) Perimeter of Square given Diameter of Incircle

fx  $P=4\cdot D_i$ 

 $\boxed{\text{ex}} \ 40\text{m} = 4 \cdot 10\text{m}$ 

#### 42) Perimeter of Square given Inradius

fx  $P = 8 \cdot r_i$ 

Open Calculator 🚰

 $\boxed{\texttt{ex}} \ 40 \text{m} = 8 \cdot 5 \text{m}$ 

# Radius of Square &

#### Circumradius of Square

- 43) Circumradius of Square
- fx  $m r_c = rac{l_e}{\sqrt{2}}$

Open Calculator 🗗

- $= \frac{10m}{\sqrt{2}}$
- 44) Circumradius of Square given Area
- $\mathbf{f}_{\mathbf{c}}$   $\mathbf{r}_{\mathrm{c}}=\sqrt{rac{\mathrm{A}}{2}}$
- $ext{ex} 7.071068 ext{m} = \sqrt{rac{100 ext{m}^2}{2}}$

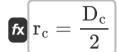


#### 45) Circumradius of Square given Diagonal



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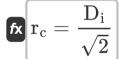
# 46) Circumradius of Square given Diameter of Circumcircle



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 $\boxed{7m = \frac{14m}{2}}$ 

### 47) Circumradius of Square given Diameter of Incircle



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### 48) Circumradius of Square given Inradius





#### 49) Circumradius of Square given Perimeter

fx 
$$m r_c = rac{P}{4 \cdot \sqrt{2}}$$

Open Calculator 🚰

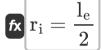
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$$= \frac{7.071068 \text{m}}{4 \cdot \sqrt{2}}$$

#### Inradius of Square

# 50) Inradius of Square



$$5m = \frac{10m}{2}$$

#### 51) Inradius of Square given Area

$$\mathbf{r}_{\mathrm{i}}=rac{\sqrt{\mathrm{A}}}{2}$$

$$\boxed{\mathbf{5m} = \frac{\sqrt{100m^2}}{2}}$$



Open Calculator 2

Open Calculator 2

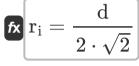
# 52) Inradius of Square given Circumradius 🗗

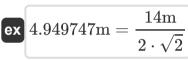


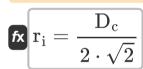
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 $\boxed{\texttt{ex}} 4.949747 \mathrm{m} = \frac{7 \mathrm{m}}{\sqrt{2}}$ 

# 53) Inradius of Square given Diagonal



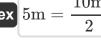




54) Inradius of Square given Diameter of Circumcircle 🗗

- $4.949747m = \frac{14m}{2 \cdot \sqrt{2}}$

# 55) Inradius of Square given Diameter of Incircle



#### 56) Inradius of Square given Perimeter



$$\mathbf{f}\mathbf{x}$$
  $\mathbf{r}_{\mathrm{i}}=rac{\mathbf{P}}{8}$ 

$$5m = \frac{40m}{8}$$

#### Variables Used

- A Area of Square (Square Meter)
- d Diagonal of Square (Meter)
- **D**<sub>c</sub> Diameter of Circumcircle of Square (Meter)
- **D**<sub>i</sub> Diameter of Incircle of Square (Meter)
- Ie Edge Length of Square (Meter)
- P Perimeter of Square (Meter)
- r<sub>c</sub> Circumradius of Square (Meter)
- ri Inradius of Square (Meter)





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#### 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

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- 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
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