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Square Formulas

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List of 56 Square Formulas

Square

Area of Square

1) Area of Square

$$fx \quad A = l_e^2$$

[Open Calculator !\[\]\(de95854c7ee024cfadc48187bbb781b2_img.jpg\)](#)

$$ex \quad 100m^2 = (10m)^2$$

2) Area of Square given Circumradius

$$fx \quad A = 2 \cdot r_c^2$$

[Open Calculator !\[\]\(6a9b39b98eb945faa14c645ec99e4eaa_img.jpg\)](#)

$$ex \quad 98m^2 = 2 \cdot (7m)^2$$


3) Area of Square given Diagonal

$$fx \quad A = \frac{1}{2} \cdot d^2$$

[Open Calculator !\[\]\(f1c5da15572e3e09d343161be98f508d_img.jpg\)](#)

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



4) Area of Square given Diameter of Circumcircle 

$$fx \quad A = \frac{D_c^2}{2}$$

[Open Calculator !\[\]\(cbe80b694ebd74fcfe136a095b608235_img.jpg\)](#)


$$ex \quad 98m^2 = \frac{(14m)^2}{2}$$

5) Area of Square given Diameter of Incircle 

$$fx \quad A = D_i^2$$

[Open Calculator !\[\]\(3e2231b1ad3ca8da8658228c00dd08e0_img.jpg\)](#)


$$ex \quad 100m^2 = (10m)^2$$

6) Area of Square given Inradius 

$$fx \quad A = 4 \cdot r_i^2$$

[Open Calculator !\[\]\(0d5ec72f61334709c3fc9450209b754f_img.jpg\)](#)

$$ex \quad 100m^2 = 4 \cdot (5m)^2$$

7) Area of Square given Perimeter 

$$fx \quad A = \frac{1}{16} \cdot P^2$$

[Open Calculator !\[\]\(b64b40baaee5acddc1eab8538ba84754_img.jpg\)](#)

$$ex \quad 100m^2 = \frac{1}{16} \cdot (40m)^2$$



Diagonal of Square

8) Diagonal of Square

$$fx \quad d = \sqrt{2} \cdot l_e$$

[Open Calculator !\[\]\(23d9fc146e83b5c3013cfa32c784f8d5_img.jpg\)](#)

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

9) Diagonal of Square given Area

$$fx \quad d = \sqrt{2 \cdot A}$$

[Open Calculator !\[\]\(aa53ad6fea213b8b2226d3077e30533a_img.jpg\)](#)

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

10) Diagonal of Square given Circumradius

$$fx \quad d = 2 \cdot r_c$$

[Open Calculator !\[\]\(626ce8ac21792b9405bfddfea8e0c96a_img.jpg\)](#)

$$ex \quad 14m = 2 \cdot 7m$$


11) Diagonal of Square given Diameter of Circumcircle

$$fx \quad d = \frac{D_c}{1}$$

[Open Calculator !\[\]\(c1168d6a8b365d11e842ece304635fa7_img.jpg\)](#)

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



12) Diagonal of Square given Diameter of Incircle 

$$fx \quad d = \sqrt{2} \cdot D_i$$

[Open Calculator !\[\]\(e2376d476d06eb31946dc01a69a4403a_img.jpg\)](#)

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

13) Diagonal of Square given Inradius 

$$fx \quad d = 2 \cdot \sqrt{2} \cdot r_i$$

[Open Calculator !\[\]\(0b5e7e25e8775f7e7e80906ada4f0021_img.jpg\)](#)


$$ex \quad 14.14214m = 2 \cdot \sqrt{2} \cdot 5m$$

14) Diagonal of Square given Perimeter 

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

[Open Calculator !\[\]\(bd3b31712ad9bab5a241210fa6925cdd_img.jpg\)](#)

$$ex \quad 14.14214m = \frac{40m}{2 \cdot \sqrt{2}}$$


Diameter of Square Diameter of Circumcircle of Square 15) Diameter of Circumcircle of Square 

$$fx \quad D_c = \sqrt{2} \cdot l_e$$

[Open Calculator !\[\]\(4436e6b00b9d5e62c2a161129eb3e4d0_img.jpg\)](#)

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




16) Diameter of Circumcircle of Square given Area 

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

[Open Calculator !\[\]\(d3fb9f94af8b26d1c844efa9a98805b0_img.jpg\)](#)


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

17) Diameter of Circumcircle of Square given Circumradius 

$$fx \quad D_c = 2 \cdot r_c$$

[Open Calculator !\[\]\(e1d6102fe77919492c04879c8450f1f5_img.jpg\)](#)

$$ex \quad 14m = 2 \cdot 7m$$

18) Diameter of Circumcircle of Square given Diagonal 

$$fx \quad D_c = \frac{d}{1}$$

[Open Calculator !\[\]\(ab4e2b3fc7e7887b7a72f548aa6f5e60_img.jpg\)](#)


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

19) Diameter of Circumcircle of Square given Diameter of Incircle 

$$fx \quad D_c = \sqrt{2} \cdot D_i$$

[Open Calculator !\[\]\(5abce1a84a655b073239ab33e1199487_img.jpg\)](#)

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

20) Diameter of Circumcircle of Square given Inradius 

$$fx \quad D_c = 2 \cdot \sqrt{2} \cdot r_i$$

[Open Calculator !\[\]\(111c5272ee3f91361f0d2e3665dd6ad0_img.jpg\)](#)

$$ex \quad 14.14214m = 2 \cdot \sqrt{2} \cdot 5m$$




21) Diameter of Circumcircle of Square given Perimeter 

$$fx \quad D_c = \frac{P}{2 \cdot \sqrt{2}}$$

[Open Calculator !\[\]\(9dfdaff1d86ba3c1f8353b4d1b61b8c5_img.jpg\)](#)


$$ex \quad 14.14214m = \frac{40m}{2 \cdot \sqrt{2}}$$

Diameter of Incircle of Square 22) Diameter of Incircle of Square 

$$fx \quad D_i = \frac{l_e}{1}$$

[Open Calculator !\[\]\(3cb60d42b10e53f9522bb0b392c1c4cd_img.jpg\)](#)

$$ex \quad 10m = \frac{10m}{1}$$

23) Diameter of Incircle of Square given Area 

$$fx \quad D_i = \sqrt{A}$$

[Open Calculator !\[\]\(0d7ca0919e6c47bbd874bfa0189fe22e_img.jpg\)](#)

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


24) Diameter of Incircle of Square given Circumradius 

$$fx \quad D_i = \sqrt{2} \cdot r_c$$

[Open Calculator !\[\]\(683dba75afe26e28cd4de5730b776760_img.jpg\)](#)

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



25) Diameter of Incircle of Square given Diagonal 

$$fx \quad D_i = \frac{d}{\sqrt{2}}$$

[Open Calculator !\[\]\(6605b201d6f14d9b3bcb8ab5f274d107_img.jpg\)](#)


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

26) Diameter of Incircle of Square given Diameter of Circumcircle 

$$fx \quad D_i = \frac{D_c}{\sqrt{2}}$$

[Open Calculator !\[\]\(e8fb589d58dad1692debababa5e928b6_img.jpg\)](#)

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

27) Diameter of Incircle of Square given Inradius 

$$fx \quad D_i = 2 \cdot r_i$$

[Open Calculator !\[\]\(4688aadfd656ded00cd6bdfae55089a9_img.jpg\)](#)

$$ex \quad 10m = 2 \cdot 5m$$

28) Diameter of Incircle of Square given Perimeter 

$$fx \quad D_i = \frac{P}{4}$$

[Open Calculator !\[\]\(4146d17f71dced09c6ad789cacceaa6d_img.jpg\)](#)

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



Edge of Square

29) Edge Length of Square given Area

$$fx \quad l_e = \sqrt{A}$$

[Open Calculator !\[\]\(d66ff64371a51729ac8c1cdaa685ba6f_img.jpg\)](#)

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

30) Edge Length of Square given Circumradius

$$fx \quad l_e = \sqrt{2} \cdot r_c$$

[Open Calculator !\[\]\(faf942dc3e59ce8eb64b4ac481eca7e0_img.jpg\)](#)

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

31) Edge Length of Square given Diagonal

$$fx \quad l_e = \frac{d}{\sqrt{2}}$$

[Open Calculator !\[\]\(95b425611cbd2b8716a140cf67c81822_img.jpg\)](#)

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

32) Edge Length of Square given Diameter of Circumcircle

$$fx \quad l_e = \frac{D_c}{\sqrt{2}}$$

[Open Calculator !\[\]\(56549452e01ca28bdf2500ced9653143_img.jpg\)](#)

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



33) Edge Length of Square given Diameter of Incircle

$$fx \quad l_e = \frac{D_i}{1}$$

[Open Calculator !\[\]\(0f848bbd71cef6b345273b16f905912a_img.jpg\)](#)

$$ex \quad 10m = \frac{10m}{1}$$

34) Edge Length of Square given Inradius

$$fx \quad l_e = 2 \cdot r_i$$

[Open Calculator !\[\]\(3211b5d1d968fc1665909b34f9f16010_img.jpg\)](#)

$$ex \quad 10m = 2 \cdot 5m$$

35) Edge Length of Square given Perimeter

$$fx \quad l_e = \frac{P}{4}$$

[Open Calculator !\[\]\(9c2e8d1b5bd77cb5c9f83b7a9cff79fd_img.jpg\)](#)

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

Perimeter of Square


36) Perimeter of Square

$$fx \quad P = 4 \cdot l_e$$

[Open Calculator !\[\]\(eabd9f9ababee93effadc3b380fe65fd_img.jpg\)](#)

$$ex \quad 40m = 4 \cdot 10m$$




37) Perimeter of Square given Area 

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

[Open Calculator !\[\]\(cbe80b694ebd74fcfe136a095b608235_img.jpg\)](#)

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

38) Perimeter of Square given Circumradius 

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

[Open Calculator !\[\]\(3e2231b1ad3ca8da8658228c00dd08e0_img.jpg\)](#)

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

39) Perimeter of Square given Diagonal 

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

[Open Calculator !\[\]\(0d5ec72f61334709c3fc9450209b754f_img.jpg\)](#)


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

40) Perimeter of Square given Diameter of Circumcircle 

$$fx \quad P = 2 \cdot \sqrt{2} \cdot D_c$$

[Open Calculator !\[\]\(b64b40baaee5acddc1eab8538ba84754_img.jpg\)](#)

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


41) Perimeter of Square given Diameter of Incircle 

$$fx \quad P = 4 \cdot D_i$$

[Open Calculator !\[\]\(aff7c69c44a5e015f18c35867ef3f5c3_img.jpg\)](#)

$$ex \quad 40m = 4 \cdot 10m$$





42) Perimeter of Square given Inradius 

$$fx \quad P = 8 \cdot r_i$$

[Open Calculator !\[\]\(e78f798d4ea5c530c9db49e7d26e6b95_img.jpg\)](#)


$$ex \quad 40m = 8 \cdot 5m$$

Radius of Square Circumradius of Square 43) Circumradius of Square 

$$fx \quad r_c = \frac{l_e}{\sqrt{2}}$$

[Open Calculator !\[\]\(dd161862f9164df98f62b726e9846241_img.jpg\)](#)

$$ex \quad 7.071068m = \frac{10m}{\sqrt{2}}$$


44) Circumradius of Square given Area 

$$fx \quad r_c = \sqrt{\frac{A}{2}}$$

[Open Calculator !\[\]\(a8f9309f944226d1420f5fed22e2b6e6_img.jpg\)](#)

$$ex \quad 7.071068m = \sqrt{\frac{100m^2}{2}}$$



45) Circumradius of Square given Diagonal 

$$fx \quad r_c = \frac{d}{2}$$

[Open Calculator !\[\]\(e2376d476d06eb31946dc01a69a4403a_img.jpg\)](#)


$$ex \quad 7m = \frac{14m}{2}$$

46) Circumradius of Square given Diameter of Circumcircle 

$$fx \quad r_c = \frac{D_c}{2}$$

[Open Calculator !\[\]\(0b5e7e25e8775f7e7e80906ada4f0021_img.jpg\)](#)

$$ex \quad 7m = \frac{14m}{2}$$

47) Circumradius of Square given Diameter of Incircle 

$$fx \quad r_c = \frac{D_i}{\sqrt{2}}$$

[Open Calculator !\[\]\(bd3b31712ad9bab5a241210fa6925cdd_img.jpg\)](#)

$$ex \quad 7.071068m = \frac{10m}{\sqrt{2}}$$

48) Circumradius of Square given Inradius 

$$fx \quad r_c = \sqrt{2} \cdot r_i$$

[Open Calculator !\[\]\(7bc43b319a082987e20f7bf78f4bab80_img.jpg\)](#)

$$ex \quad 7.071068m = \sqrt{2} \cdot 5m$$



49) Circumradius of Square given Perimeter

[Open Calculator !\[\]\(eafc244b53721dd1ec133f0772f70fc7_img.jpg\)](#)

$$fx \quad r_c = \frac{P}{4 \cdot \sqrt{2}}$$

$$ex \quad 7.071068m = \frac{40m}{4 \cdot \sqrt{2}}$$

Inradius of Square

50) Inradius of Square

[Open Calculator !\[\]\(e1d6102fe77919492c04879c8450f1f5_img.jpg\)](#)

$$fx \quad r_i = \frac{l_e}{2}$$

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


51) Inradius of Square given Area

[Open Calculator !\[\]\(ab4e2b3fc7e7887b7a72f548aa6f5e60_img.jpg\)](#)

$$fx \quad r_i = \frac{\sqrt{A}}{2}$$

$$ex \quad 5m = \frac{\sqrt{100m^2}}{2}$$



52) Inradius of Square given Circumradius 

$$fx \quad r_i = \frac{r_c}{\sqrt{2}}$$

[Open Calculator !\[\]\(9dfdaff1d86ba3c1f8353b4d1b61b8c5_img.jpg\)](#)


$$ex \quad 4.949747m = \frac{7m}{\sqrt{2}}$$

53) Inradius of Square given Diagonal 

$$fx \quad r_i = \frac{d}{2 \cdot \sqrt{2}}$$

[Open Calculator !\[\]\(2b376d1a92330ab09dad2665d2f89bf5_img.jpg\)](#)

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

54) Inradius of Square given Diameter of Circumcircle 

$$fx \quad r_i = \frac{D_c}{2 \cdot \sqrt{2}}$$

[Open Calculator !\[\]\(c444627dab9fee9a1550c053ffaaaae2_img.jpg\)](#)

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

55) Inradius of Square given Diameter of Incircle 

$$fx \quad r_i = \frac{D_i}{2}$$

[Open Calculator !\[\]\(06a315363e7801bba8c7489a6694af19_img.jpg\)](#)

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



56) Inradius of Square given Perimeter [Open Calculator !\[\]\(3d8c13c92b853674f749aac6fa869926_img.jpg\)](#)

$$\text{fx } r_i = \frac{P}{8}$$

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





Variables Used

- **A** Area of Square (*Square Meter*)
- **d** Diagonal of Square (*Meter*)
- **D_c** Diameter of Circumcircle of Square (*Meter*)
- **D_i** Diameter of Incircle of Square (*Meter*)
- **l_e** Edge Length of Square (*Meter*)
- **P** Perimeter of Square (*Meter*)
- **r_c** Circumradius of Square (*Meter*)
- **r_i** Inradius of Square (*Meter*)



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 



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