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Square Formulas

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List of 56 Square Formulas

Square

Area of Square

1) Area of Square

Open Calculator

fx $A = l_e^2$

ex $100\text{m}^2 = (10\text{m})^2$

2) Area of Square given Circumradius

Open Calculator

fx $A = 2 \cdot r_c^2$

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

3) Area of Square given Diagonal

Open Calculator

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

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

4) Area of Square given Diameter of Circumcircle

Open Calculator

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

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

5) Area of Square given Diameter of Incircle

Open Calculator

fx $$A = D_i^2$$

ex $$100\text{m}^2 = (10\text{m})^2$$

6) Area of Square given Inradius

Open Calculator

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

ex $$100\text{m}^2 = 4 \cdot (5\text{m})^2$$

7) Area of Square given Perimeter

Open Calculator

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

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

Diagonal of Square

8) Diagonal of Square

Open Calculator

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

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

9) Diagonal of Square given Area

Open Calculator

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

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

10) Diagonal of Square given Circumradius

Open Calculator

fx $d = 2 \cdot r_c$

ex $14\text{m} = 2 \cdot 7\text{m}$

11) Diagonal of Square given Diameter of Circumcircle

Open Calculator

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

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

12) Diagonal of Square given Diameter of Incircle

Open Calculator

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

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

13) Diagonal of Square given Inradius

Open Calculator

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

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

14) Diagonal of Square given Perimeter

Open Calculator

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

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

Diameter of Square

Diameter of Circumcircle of Square

15) Diameter of Circumcircle of Square

Open Calculator

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

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

16) Diameter of Circumcircle of Square given Area

Open Calculator

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

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

17) Diameter of Circumcircle of Square given Circumradius

Open Calculator

fx $D_c = 2 \cdot r_c$

ex $14\text{m} = 2 \cdot 7\text{m}$

18) Diameter of Circumcircle of Square given Diagonal

Open Calculator

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

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

19) Diameter of Circumcircle of Square given Diameter of Incircle

Open Calculator

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

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

20) Diameter of Circumcircle of Square given Inradius

Open Calculator

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

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

21) Diameter of Circumcircle of Square given Perimeter

Open Calculator

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

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

Diameter of Incircle of Square

22) Diameter of Incircle of Square

Open Calculator

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

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

23) Diameter of Incircle of Square given Area

Open Calculator

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

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

24) Diameter of Incircle of Square given Circumradius

Open Calculator

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

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

25) Diameter of Incircle of Square given Diagonal

Open Calculator

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

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

26) Diameter of Incircle of Square given Diameter of Circumcircle

Open Calculator

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

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

27) Diameter of Incircle of Square given Inradius

Open Calculator

fx $$D_i = 2 \cdot r_i$$

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

28) Diameter of Incircle of Square given Perimeter

Open Calculator

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

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

Edge of Square

29) Edge Length of Square given Area

Open Calculator

fx $l_e = \sqrt{A}$

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

30) Edge Length of Square given Circumradius

Open Calculator

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

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

31) Edge Length of Square given Diagonal

Open Calculator

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

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

32) Edge Length of Square given Diameter of Circumcircle

Open Calculator

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

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

33) Edge Length of Square given Diameter of Incircle

Open Calculator

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

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

34) Edge Length of Square given Inradius

Open Calculator

fx $l_e = 2 \cdot r_i$

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

35) Edge Length of Square given Perimeter

Open Calculator

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

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

Perimeter of Square

36) Perimeter of Square

Open Calculator

fx $P = 4 \cdot l_e$

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

37) Perimeter of Square given Area

Open Calculator

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

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

38) Perimeter of Square given Circumradius

Open Calculator

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

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

39) Perimeter of Square given Diagonal

Open Calculator

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

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

40) Perimeter of Square given Diameter of Circumcircle

Open Calculator

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

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

41) Perimeter of Square given Diameter of Incircle

Open Calculator

fx $P = 4 \cdot D_i$

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

42) Perimeter of Square given Inradius

Open Calculator

fx $P = 8 \cdot r_i$

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

Radius of Square

Circumradius of Square

43) Circumradius of Square

Open Calculator

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

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

44) Circumradius of Square given Area

Open Calculator

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

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

45) Circumradius of Square given Diagonal

Open Calculator

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

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

46) Circumradius of Square given Diameter of Circumcircle

Open Calculator

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

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

47) Circumradius of Square given Diameter of Incircle

Open Calculator

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

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

48) Circumradius of Square given Inradius

Open Calculator

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

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

49) Circumradius of Square given Perimeter

Open Calculator

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

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

Inradius of Square

50) Inradius of Square

Open Calculator

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

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

51) Inradius of Square given Area

Open Calculator

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

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

52) Inradius of Square given Circumradius

Open Calculator

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

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

53) Inradius of Square given Diagonal

Open Calculator

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

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

54) Inradius of Square given Diameter of Circumcircle

Open Calculator

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

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

55) Inradius of Square given Diameter of Incircle

Open Calculator

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

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

56) Inradius of Square given Perimeter

Open Calculator

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

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

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

- 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
- Tri-equilateral Trapezoid Formulas
- Truncated Square Formulas
- Unicursal Hexagram Formulas
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