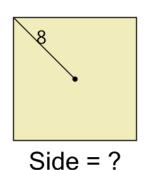


mobius

Pythagoras in Squares - Center Hypotenuse to Side Equation



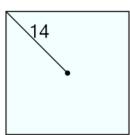
1



Find the length of the square sides, given a diagonal to the center of length 8

$$\begin{bmatrix} A & \sqrt{8^2} \\ 2 \cdot \sqrt{\frac{8^2}{2}} \end{bmatrix}^B 2 \cdot \sqrt{\frac{8^2}{\sqrt{2}}}$$

2

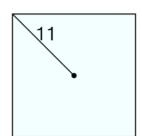


Side = ?

Find the length of the square sides, given a diagonal to the center of length 14

$$\begin{vmatrix} A \\ 2 \cdot \sqrt{\frac{14^2}{\sqrt{2}}} \end{vmatrix}^B 2 \cdot \sqrt{\frac{14^2}{2}}$$

3

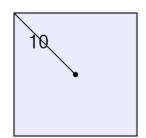


Side = ?

Find the length of the square sides, given a diagonal to the center of length 11

$$\begin{bmatrix} \mathsf{A} & \sqrt{11^2} \\ 2 \cdot \sqrt{\frac{11^2}{2}} \end{bmatrix}^\mathsf{B} 2 \cdot \sqrt{\frac{11^2}{\sqrt{2}}}$$

4

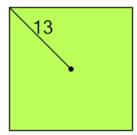


Side = ?

Find the length of the square sides, given a diagonal to the center of length 10

$$\begin{vmatrix} \mathsf{A} & \sqrt{10^2} \ \mathsf{2} \cdot \sqrt{\frac{10^2}{2}} \end{vmatrix}^\mathsf{B}$$

5

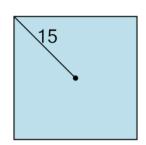


Side = ?

Find the length of the square sides, given a diagonal to the center of length 13

$$\begin{vmatrix} A \\ 2 \cdot \sqrt{\frac{13^2}{\sqrt{2}}} \end{vmatrix}^B 2 \cdot \sqrt{\frac{13^2}{2}}$$

6

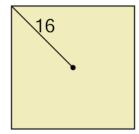


Side = ?

Find the length of the square sides, given a diagonal to the center of length 15

$$\begin{vmatrix} 2 \cdot \sqrt{\frac{15^2}{2}} \\ 2 \cdot \sqrt{\frac{15^2}{\sqrt{2}}} \end{vmatrix}^{\mathsf{B}}$$

7

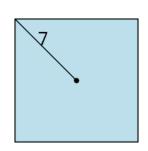


Side = ?

Find the length of the square sides, given a diagonal to the center of length 16

$$\overset{\mathsf{A}}{2} \cdot \sqrt{\frac{16^2}{\sqrt{2}}} \overset{\mathsf{B}}{2} \cdot \sqrt{\frac{16^2}{2}}$$

8



Side = ?

Find the length of the square sides, given a diagonal to the center of length 7

$$\begin{vmatrix} \mathbf{a} & \sqrt{\frac{7^2}{2}} \\ \mathbf{a} \cdot \sqrt{\frac{7^2}{\sqrt{2}}} \end{vmatrix}^{\mathsf{B}}$$