Solve Square Root Equations

Directions: Solve each equation for the variable. If the given number is not a perfect square, write your answer using the square root symbol.

① $b^2 = 25$

$b = \pm 5$

② $k^2 = 9$

$k = \pm 3$

③ $v^2 = 121$

$v = \pm 11$

④ $t^2 = 50$

$t = \pm\sqrt{50}$ (or $\pm 5\sqrt{2}$)

⑤ $z^2 = 196$

$z = \pm 14$

⑥ $m^2 = 400$

$m = \pm 20$

⑦ $j^2 = 64$

$j = \pm 8$

⑧ $c^2 = 49$

$c = \pm 7$

⑨ $n^2 = 120$

$n = \pm\sqrt{120}$ (or $\pm 2\sqrt{30}$)

⑩ $s^2 = 169$

$s = \pm 13$

⑪ $w^2 = 256$

$w = \pm 16$

⑫ $f^2 = 361$

$f = \pm 19$

⑬ $y^2 = 575$

$y = \pm\sqrt{575}$ (or $\pm 5\sqrt{23}$)

⑭ $a^2 = 900$

$a = \pm 30$

⑮ $q^2 = 1{,}225$

$q = \pm 35$

⑯ $d^2 = 324$

$d = \pm 18$

⑰ $x^2 = 600$

$x = \pm\sqrt{600}$ (or $\pm 10\sqrt{6}$)

⑱ $g^2 = 625$

$g = \pm 25$

⑲ $r^2 = 721$

$r = \pm\sqrt{721}$

⑳ $h^2 = 1{,}600$

$h = \pm 40$

㉑ $p^2 = 2{,}025$

$p = \pm 45$