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## 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) $\begin{gathered} b^{2}=25 \\ b= \pm 5 \end{gathered}$ | (2) $\begin{gathered} k^{2}=9 \\ k= \pm 3 \end{gathered}$ | (3) $\begin{gathered} v^{2}=121 \\ v= \pm 11 \end{gathered}$ |
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| $\begin{aligned} & \text { (4) } t^{2}=50 \\ & t= \pm \sqrt{50}(\text { or } \pm 5 \sqrt{2}) \end{aligned}$ | (5) $\begin{gathered} z^{2}=196 \\ z= \pm 14 \end{gathered}$ | (6) $\begin{aligned} & m^{2}=400 \\ & m= \pm 20 \end{aligned}$ |
| $\text { (7) } \begin{aligned} & j^{2}=64 \\ & j= \pm 8 \end{aligned}$ | (8) $\begin{aligned} & c^{2}=49 \\ & c= \pm 7 \end{aligned}$ | $\begin{aligned} & \text { (9) } n^{2}=120 \\ & n= \pm \sqrt{120}(\text { or } \pm 2 \sqrt{30}) \end{aligned}$ |
| (10) $\begin{gathered} s^{2}=169 \\ s= \pm 13 \end{gathered}$ | (11) $\begin{gathered} w^{2}=256 \\ w= \pm 16 \end{gathered}$ | (12) $\begin{aligned} & f^{2}=361 \\ & f= \pm 19 \end{aligned}$ |
| $\begin{aligned} & \text { (13) } y^{2}=575 \\ & y= \pm \sqrt{575}(\text { or } \pm 5 \sqrt{23}) \end{aligned}$ | (14) $\begin{aligned} & a^{2}=900 \\ & a= \pm 30 \end{aligned}$ | (15) $\begin{aligned} & q^{2}=1,225 \\ & q= \pm 35 \end{aligned}$ |
| $\text { (16) } \begin{array}{r} d^{2}=324 \\ d= \pm 18 \end{array}$ | $\begin{aligned} & \text { (17) } \quad x^{2}=600 \\ & x= \pm \sqrt{600}(\text { or } \pm 10 \sqrt{6}) \end{aligned}$ | (18) $\begin{gathered} g^{2}=625 \\ g= \pm 25 \end{gathered}$ |
| $\text { (19) } \begin{array}{r} r^{2}=721 \\ r= \pm \sqrt{721} \end{array}$ | $\text { (20) } \begin{aligned} \quad h^{2} & =1,600 \\ h & = \pm 40 \end{aligned}$ | $\text { (21) } \begin{aligned} p^{2} & =2,025 \\ p & = \pm 45 \end{aligned}$ |

