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## Solve Cube Root

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

| (1) $\begin{aligned} h^{3} & =27 \\ h & =3 \end{aligned}$ | (2) | $\begin{aligned} & v^{3}=8 \\ & v=2 \end{aligned}$ | (3) | $\begin{aligned} & f^{3}=-64 \\ & f=-4 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| (4) $\begin{gathered} t^{3}=18 \\ t=\sqrt[3]{18} \end{gathered}$ | (5) | $\begin{aligned} & x^{3}=-1 \\ & x=-1 \end{aligned}$ | (6) | $\begin{gathered} d^{3}=30 \\ d=\sqrt[3]{30} \end{gathered}$ |
| $\text { (7) } \begin{aligned} j^{3} & =-216 \\ j & =-6 \end{aligned}$ |  | $\begin{gathered} y^{3}=-100 \\ y=\sqrt[3]{-100} \end{gathered}$ | (9) | $\begin{gathered} a^{3}=-343 \\ a=-7 \end{gathered}$ |
| (10) $\begin{gathered} b^{3}=-1,728 \\ b=-12 \end{gathered}$ |  | $\begin{gathered} r^{3}=1,331 \\ r=11 \end{gathered}$ |  | $\begin{gathered} n^{3}=128 \\ \sqrt[3]{128}(\text { or } 4 \sqrt[3]{2}) \end{gathered}$ |
|  |  | $\begin{gathered} w^{3}=15,625 \\ w=25 \end{gathered}$ |  | $\begin{gathered} m^{3}=-3,375 \\ m=-15 \end{gathered}$ |
| $\begin{aligned} & \text { (16) } z^{3}=250 \\ & z=\sqrt[3]{250}(\text { or } 5 \sqrt[3]{2}) \end{aligned}$ |  | $\begin{gathered} g^{3}=-8,000 \\ g=-20 \end{gathered}$ | (18) | $\begin{gathered} c^{3}=64,000 \\ c=40 \end{gathered}$ |

