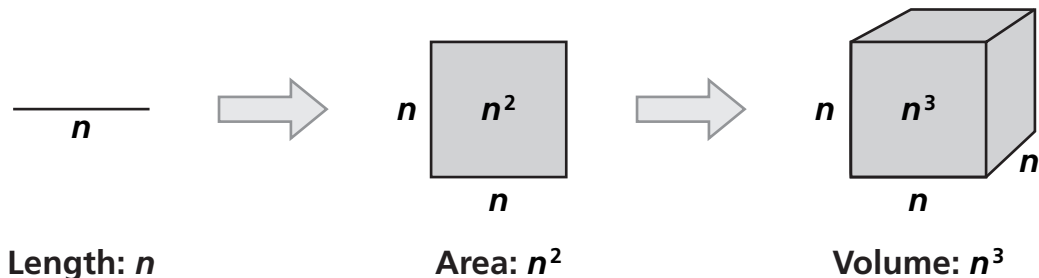


Volume of Rectangular Prisms

You already know that a certain length, n , may represent the length of a line segment, the side of a square, and the edge of a cube.



1 Complete the table using positive numbers only.

| | | | | | | | | | | |
|-------|---|----|----|----|---|----|----|----|----|------|
| n | 1 | | | | | | | | | |
| n^2 | | 36 | 25 | 81 | | 16 | 64 | | 49 | |
| n^3 | | | | | 8 | | | 27 | | 1000 |

2 The symbol $\sqrt{\quad}$ means "square root."

If n is not a negative number, then $\sqrt{n^2} = n$.
Write the square roots.

$\sqrt{25} = \underline{\hspace{2cm}}$ $\sqrt{64} = \underline{\hspace{2cm}}$ $\sqrt{100} = \underline{\hspace{2cm}}$
 $\sqrt{144} = \underline{\hspace{2cm}}$ $\sqrt{225} = \underline{\hspace{2cm}}$ $\sqrt{625} = \underline{\hspace{2cm}}$

3 The symbol $\sqrt[3]{\quad}$ means "cube root." $\sqrt[3]{n^3} = n$.
Write the cube roots.

$\sqrt[3]{64} = \underline{\hspace{2cm}}$ $\sqrt[3]{216} = \underline{\hspace{2cm}}$ $\sqrt[3]{27} = \underline{\hspace{2cm}}$
 $\sqrt[3]{512} = \underline{\hspace{2cm}}$ $\sqrt[3]{1000} = \underline{\hspace{2cm}}$ $\sqrt[3]{729} = \underline{\hspace{2cm}}$