

Mental Math with Tricks and Shortcuts (continued)

Cube Roots the Long Way

$$(636056)^{1/3}$$

What number cubed is less than 636 = 8. Put 8 down as first part of answer

Square 8 for 64 and multiply by 300 = 19200. Divide into 114056 = 6, add the 8 and 6 = 14

Multiply 14 x 30 = 420, add 420 to 19200 = 19620, square the 6 and add to 19620 = 19656

If 6 x 19656 is less than 124056, then it is not necessary to use lower number.

$$\begin{array}{r} 636\ 056 \\ \underline{512} \\ 19656)124056 \\ \underline{117936} \\ 7120 \end{array} = 86^3$$

USE ESTIMATES

Use estimates to check your answers. Get in the habit of doing this for all calculations.

NOTE: Considerable care has been taken to eliminate errors in this document, but the author does not guarantee that the document is error free by implication or in fact.

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