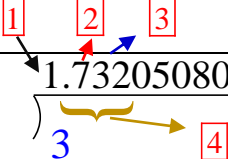


$$\sqrt{3} \approx 1.732050807568877293$$

 1.732050807568877293	$1 \times 1 = 1$	$\boxed{1} \rightarrow 1 \times 2 = 2$
$\begin{array}{r} 1 \\ 200 \end{array}$	$27 \times 7 = 189$	$\boxed{2} \rightarrow 17 \times 2 = 34$
$\begin{array}{r} 189 \\ 1100 \end{array}$	$343 \times 3 = 1029$	$\boxed{3} \rightarrow 173 \times 2 = 346$
$\begin{array}{r} 1029 \\ 7100 \end{array}$	$3462 \times 2 = 6924$	$\boxed{4} \rightarrow 1732 \times 2 = 3464$
$\begin{array}{r} 6924 \\ 17600 \\ 1560000 \end{array}$	$3464 \times _ = 34,64 _ > 15,600$ $346405 \times 5 = 1,732,025$	$17320 \times 2 = 34640$ $173205 \times 2 = 346410$
$\begin{array}{r} 1732025 \\ 2797500 \\ 279750000 \end{array}$	$346410 \times _ = ? \quad 346410 _ > 2797500$ $34641008 \times 8 = 277128064$	$1732050 \times 2 = 3464100$ $17320508 \times 2 = 34641016$
$\begin{array}{r} 277128064 \\ 262193600 \\ 26219360000 \end{array}$	$34641016 \times _ = ? \quad 34641016 _ > 262193600$ $346410167 \times 7 = 2424871169$	$173205080 \times 2 = 346410160$ $1732050807 \times 2 = 3464101614$
$\begin{array}{r} 2424871169 \\ 197064875100 \end{array}$	$34641016145 \times 5 = 173205080725$	$17320508075 \times 2 = 34641016150$
$\begin{array}{r} 173205080725 \\ 2385979437500 \end{array}$	$346410161506 \times 6 = 2078460969036$	$173205080756 \times 2 = 346410161512$
$\begin{array}{r} 2078460969036 \\ 30751846846400 \end{array}$	$3464101615128 \times 8 = 2771281291024$	$1732050807568 \times 2 = 3464101615136$
$\begin{array}{r} 27712812921024 \\ 303903392537600 \end{array}$	$34641016151368 \times 8 = 27712812910944$	$17320508075688 \times 2 = 34641016151376$
$\begin{array}{r} 277128129210944 \\ 2677526332665600 \end{array}$	$346410161513767 \times 7 = 2424871130596369$	$173205080756887 \times 2 = 346410161513774$
$\begin{array}{r} 2424871130596369 \\ 25265520206923100 \end{array}$	$3464101615137747 \times 7 = 24248711305964229$	$1732050807568877 \times 2 = 3464101615137754$
$\begin{array}{r} 24248711305964229 \\ 101680890095887100 \end{array}$	$34641016151377542 \times 2 = 69282032302755084$	$17320508075688772 \times 2 = 34641016151377544$
$\begin{array}{r} 69282032302755084 \\ 3239885779313201600 \end{array}$	$346410161513775449 \times 9 = 3117691453623979041$	$173205080756887729 \times 2 = 346410161513775459$
$\begin{array}{r} 3117691453623979041 \\ 12219432568922255900 \end{array}$	$3464101615137754593 \times 3 = 1039230845413263263779$	
$\begin{array}{r} 1039230845413263263779 \\ 1827127723508992121 \end{array}$		