

SQUARE AND SQUARE ROOT CUBE AND CUBE ROOT

Two DIGIT NUMBERS & SQUARE

$$\bullet (42)^2$$

16+1 1764 ①

$$= 1764$$

$$\bullet (47)^2 \longrightarrow (40+7)^2$$

$$= 2209 \quad \begin{matrix} ④ \\ ⑥ \end{matrix}$$

$$a^2 + b^2 + 2ab$$

$$1600 + 49 + 2 \times 280$$

$$2209$$

$$\bullet (54)^2$$

$$= 2916 \quad \begin{matrix} ① \\ ④ \end{matrix}$$

$$\bullet (59)^2$$

$$= 3481 \quad \begin{matrix} ⑧ \\ ⑨ \end{matrix}$$

$$\bullet (63)^2$$

$$= 3969 \quad ③$$

$$\bullet (67)^2$$

$$= 4489 \quad \begin{matrix} ④ \\ ⑧ \end{matrix}$$

$$\bullet (71)^2$$

$$= 5041 \quad ①$$

$$\bullet (76)^2$$

$$= 5776 \quad \begin{matrix} ③ \\ ⑧ \end{matrix}$$

$$\bullet (82)^2$$

$$= 6724 \quad ③$$

$$\bullet (88)^2$$

$$= 7744 \quad \begin{matrix} ⑥ \\ ⑬ \end{matrix}$$

$$\bullet (91)^2$$

$$= 8281 \quad ①$$

$$(99)^2$$

$$= 9801 \quad \begin{matrix} ⑧ \\ ⑪ \\ ⑧ \end{matrix}$$

THREE DIGIT NUMBERS & SQUARE

+ Base Value +

* $100 \rightarrow 1$

* $150 \rightarrow 1.5 = \frac{3}{2}$

* $200 \rightarrow 2$

* $300 \rightarrow 3$

* $250 \rightarrow 2.5 = \frac{5}{2}$

• $(102)^2$
 $\begin{array}{r} 100 + 2 \\ \hline \end{array}$
 $= 10404$

• $(106)^2$
 $\begin{array}{r} 106 \\ +6 \\ \hline 112 \\ \hline \end{array}$
 $= 11236$

• $(112)^2$
 $\begin{array}{r} 112 \\ +12 \\ \hline 124 \\ \hline \end{array}$ 04
 $= 12544$

• $(101)^2$
 $\begin{array}{r} 101 \\ +1 \\ \hline 102 \\ \hline \end{array}$ 01
 $= 10201$

• $(107)^2$
 $\begin{array}{r} 107 \\ +7 \\ \hline 114 \\ \hline \end{array}$
 $= 11449$

• $(117)^2$
 $\begin{array}{r} 117 \\ +17 \\ \hline 134 \\ \hline \end{array}$ 09
 $= 13689$

• $(154)^2$
 $\begin{array}{r} 154 \\ +4 \\ \hline 158 \\ \hline \end{array}$ 16

$\begin{array}{r} 79 \\ 158 \times \frac{3}{2} = 237 \\ \hline \end{array}$
 $= 23716$

$$\bullet (158)^2$$

$$\begin{array}{r} +8 \\ \hline 166 \end{array} \quad (64)$$

$$\overset{83}{166} \times \frac{3}{2} = 249$$

$$= 24964$$

$$\bullet (146)^2$$

$$\begin{array}{r} -4 \\ \hline 142 \end{array} \quad (16)$$

$$\overset{71}{142} \times \frac{3}{2} = 213$$

$$= 21316$$

$$\bullet (142)^2$$

$$\begin{array}{r} -8 \\ \hline 134 \end{array} \quad (64)$$

$$\overset{67}{134} \times \frac{3}{2}$$

$$= 20164$$

$$\bullet (207)^2$$

$$\begin{array}{r} +7 \\ \hline 214 \end{array} \quad (49)$$

$$214 \times 2 = 428$$

$$= 42849$$

$$\bullet (211)^2$$

$$\begin{array}{r} +11 \\ \hline 222 \end{array} \quad (121)$$

$$222 \times 2 = 444$$

$$= 44521$$

$$\bullet (213)^2$$

$$\begin{array}{r} +13 \\ \hline 226 \end{array} \quad (169)$$

$$226 \times 2 = 452$$

$$45369$$

किसी भी संख्या का Square के Last two Digit

↓
1 से 24 तक की संख्याओं के Square के Last two Digit होंगे

Ex:- $(93)^2 = 8649$

$$7^2 = 49$$

SQUARE ROOT

$$\bullet \sqrt{1849}$$

$$\begin{array}{r} 4^2 \quad 5^2 \\ 16 \quad 25 \end{array}$$

$$= 43$$

$$\begin{array}{l} (43) \checkmark \\ (47) \end{array}$$

$$\bullet \sqrt{6084}$$

$$\begin{array}{r} 7^2 \quad 8^2 \\ 49 \quad 64 \end{array}$$

$$= 78$$

$$\begin{array}{l} (72) \\ (78) \checkmark \end{array}$$

$$\begin{array}{l} \bullet 1^2 = 1 \\ \bullet 2^2 = 4 \\ \rightarrow \bullet 3^2 = 9 \\ \bullet 4^2 = 16 \\ \bullet 5^2 = 25 \\ \bullet 6^2 = 36 \\ \rightarrow \bullet 7^2 = 49 \\ \bullet 8^2 = 64 \\ \bullet 9^2 = 81 \end{array}$$