



Exercise 3E

Q1

Answer :

Using the long division method:

$$\begin{array}{r} 24 \\ 2 \overline{) 576} \\ \underline{2} \\ 44 \\ \underline{4} \\ 44 \\ \underline{4} \\ 0 \end{array}$$

$$\therefore \sqrt{576} = 24$$

Q2

Answer :

Using the long division method:

$$\begin{array}{r} 38 \\ 3 \overline{) 1444} \\ \underline{3} \\ 68 \\ \underline{6} \\ 844 \\ \underline{8} \\ 44 \\ \underline{4} \\ 0 \end{array}$$

$$\begin{array}{r} \\ \end{array} \bigg| 0$$

$$\therefore \sqrt{1444} = 38$$

Q3

Answer :

Using the long division method:

$$\begin{array}{r} 67 \\ 6 \overline{) 44 \, 89} \\ \underline{6 36} \\ 127 8 \, 89 \\ \underline{7 8 \, 89} \\ 0 \end{array}$$

$$\therefore \sqrt{4489} = 67$$

Q4

Answer :

Using the long division method:

$$\begin{array}{r} 79 \\ 7 \overline{) 62 \, 41} \\ \underline{7 49} \\ 149 13 \, 41 \\ \underline{9 13 \, 41} \\ 0 \end{array}$$

$$\therefore \sqrt{6241} = 79$$

Q5

Answer :

Using the long division method:

$$\begin{array}{r}
 84 \\
 8 \overline{) 70 \ 56} \\
 \underline{8 \ 64} \\
 164 \\
 \underline{4 \ 6 \ 56} \\
 0
 \end{array}$$

$$\therefore \sqrt{7056} = 84$$

Q6

Answer :

Using the long division method:

$$\begin{array}{r}
 95 \\
 9 \overline{) 90 \ 25} \\
 \underline{9 \ 81} \\
 185 \\
 \underline{5 \ 9 \ 25} \\
 0
 \end{array}$$

$$\therefore \sqrt{9025} = 95$$

Q7

Answer :

Using the long division method:

$$\begin{array}{r} 107 \\ 1 \overline{) 11449} \\ \underline{11} \\ 207 \\ \underline{207} \\ 7 \\ \underline{7} \\ 0 \end{array}$$

$$\therefore \sqrt{11449} = 107$$

Q8

Answer :

Using the long division method:

$$\begin{array}{r} 119 \\ 1 \overline{) 14161} \\ \underline{11} \\ 21 \\ \underline{21} \\ 0 \\ 229 \\ \underline{229} \\ 0 \end{array}$$

$$\therefore \sqrt{14161} = 119$$

Q9

Answer :

Using the long division method:

$$\begin{array}{r} 102 \\ 1 \overline{) 1 \ 04 \ 04} \\ \underline{1 \ 1} \\ 202 \\ \underline{2 \ 04 \ 04} \\ 0 \end{array}$$

$$\therefore \sqrt{10404} = 102$$

Q10

Answer :

Using the long division method:

$$\begin{array}{r} 134 \\ 1 \overline{) 1 \ 79 \ 56} \\ \underline{1 \ 1} \\ 23 \\ \underline{3 \ 69} \\ 264 \\ \underline{4 \ 10 \ 56} \\ 0 \end{array}$$

$$\therefore \sqrt{17956} = 134$$

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