Q1

Answer :

Using long division method:

$$
\begin{array}{r|l}
 & 1.3 \\
\hline
1 & \overline{1\ 69} \\
1 & 1 \\
\hline
23 & 69 \\
3 & 69 \\
\hline
 & 0 \\
\end{array}
$$

$\therefore \sqrt{1.69} = 1.3$

Q2

Answer :

Using long division method:

5.8

$$
\begin{array}{c|c}
5 & 33.64 \\
5 & 25 \\
\hline
108 & 864 \\
8 & 864 \\
\hline
& 0
\end{array}
$$

$\therefore \sqrt{33.64} = 5.8$

Q3

Answer:

Using long division method:

$$
\begin{array}{c|c}
 & 12.5 \\
1 & \overline{1}\,\overline{56}.\overline{25} \\
1 & 1 \\
\hline
22 & 56 \\
2 & 44 \\
\hline
245 & 1225 \\
5 & 1225 \\
\hline
& 0
\end{array}
$$

$\therefore \sqrt{156.25} = 12.5$

Q4

Answer:

Using long division method:

```
        8.7
    8 | 75.69
    8 | 64
  167 | 1169
    7 | 1169
      |    0
```

$$\therefore \sqrt{75.69} = 8.7$$

Q5

Answer:

Using long division method:

```
        3.14
    3 | 9.85 96
    3 | 9
   61 |  85
    1 |  61
  624 | 2496
    4 | 2496
      |    0
```

$$\therefore \sqrt{9.8596} = 3.14$$

Q6

Answer :

Using long division method:

```
          3.17
     ┌─────────────
   3 │ 10.04 89
   3 │  9
  ───┼─────────────
  61 │  104
   1 │   61
  ───┼─────────────
 627 │  4389
   7 │  4389
  ───┼─────────────
     │     0
```

$\therefore \sqrt{10.0489} = 3.17$

Q7

Answer :

Using long division method:

```
          1.04
     ┌─────────────
   1 │ 1.08 16
   1 │ 1
  ───┼─────────────
 204 │ 0816
   4 │ 0816
```

$$\overline{\big|0}$$

$$\therefore \sqrt{1.0816} = 1.04$$

Q8
Answer :

Using long division method:

```
            0.54
        _____
   5 | 0.29 16
   5 |   25
  ____|_____
  104 |    416
    4 |    416
      |_____
      |      0
```

$$\therefore \sqrt{0.2916} = 0.54$$

Q9
Answer :

Using long division method:

$$\frac{1.732}{}$$

```
  1 | 3.00 00 00
  1 | 1
 27 | 200
  7 | 189
343 | 1100
  3 | 1029
3462 | 7100
   2 | 6924
     | 176
```

$$\sqrt{3} = 1.732$$

$\Rightarrow \sqrt{3} = 1.73$ (correct up to two decimal places)

********** END *********