

Squares and Square Roots Ex 3.5 Q1

## Answer:

| (i) |       |
|-----|-------|
|     | 112   |
| 1   | 12544 |
| 1   | 1     |
| 21  | 025   |
| 1   | 21    |
| 222 | 444   |
| 2   | 444   |
|     | 0     |

Hence, the square root of 12544 is 112.

Hence, the square root of 97344 is 312.

(iii)

| 535  |        |
|------|--------|
| 5    | 286225 |
| 5    | 25     |
| 103  | 362    |
| 3    | 309    |
| 1065 | 5325   |
| 5    | 5325   |
|      | 0      |

Hence, the square root of 286225 is 535.

(iv)

|      | 625    |
|------|--------|
| 6    | 390625 |
| 6    | 36     |
| 122  | 306    |
| 2    | 244    |
| 1245 | 6225   |
| 5    | 6225   |
|      | 0      |

Hence, the square root of 390625 is 625.

Hence, the square root of 363609 is 603.

(VI)

| 987    |  |
|--------|--|
| 974169 |  |
| 81     |  |
| 1641   |  |
| 1504   |  |
| 13769  |  |
| 13769  |  |
| 0      |  |
|        |  |

Hence, the square root of 974169 is 987.

Hence, the square root of 120409 is 347.

| (VIII) |         |
|--------|---------|
|        | 1213    |
| 1      | 1471369 |
| 1      | 1       |
| 22     | 047     |
| 2      | 44      |
| 241    | 313     |
| 1      | 241     |
| 2423   | 7269    |
| 3      | 7269    |
|        | 0       |

Hence, the square root of 1471369 is 1213.

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Hence, the square root of 291600 is 540.

| (x)       |                |
|-----------|----------------|
|           | 3107           |
| 3         | 9653449<br>9   |
| 61        | 065<br>61      |
| 6207<br>7 | 43449<br>43449 |
| ·         | 0              |

Hence, the square root of 9653449 is 3107.

Hence, the square root of 1745041 is 1321.

(XII)

|           | 2002         |
|-----------|--------------|
| 2 2       | 4008004<br>4 |
| 40        | 000<br>00    |
| 400       | 080<br>00    |
| 4002<br>2 | 8004<br>8004 |
| N         | 0            |

Hence, the square root of 4008004 is 2002.

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