

RD Sharma Solutions for Class 8 Maths Chapter 3 – Squares and Square Roots

EXERCISE 3.9

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Using square root table, find the square roots of the following: 1.7 Solution: From square root table we know,

Square root of 7 is: $\sqrt{7} = 2.645$ \therefore The square root of 7 is 2.645

2.15

Solution: From square root table we know, Square root of 7 is: $\sqrt{15} = 3.8729$ \therefore The square root of 15 is 3.873

3.74

Solution:

From square root table we know, Square root of 74 is: $\sqrt{74} = 8.6023$ \therefore The square root of 74 is 8.602

4.82

Solution:

From square root table we know, Square root of 82 is: $\sqrt{82} = 9.0553$ \therefore The square root of 82 is 9.055

5.198

Solution:

From square root table we know, Square root of 198 is: $\sqrt{198} = 14.0712$ \therefore The square root of 198 is 14.071

6.540



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Solution:

From square root table we know, Square root of 540 is: $\sqrt{540} = 23.2379$ \therefore The square root of 540 is 23.24

7.8700

Solution:

From square root table we know, Square root of 8700 is: $\sqrt{8700} = 93.2737$ \therefore The square root of 8700 is 93.27

8.3509

Solution:

From square root table we know, Square root of 3509 is: $\sqrt{3509} = 59.2368$ \therefore The square root of 3509 is 59.235

9.6929

Solution:

From square root table we know, Square root of 6929 is: $\sqrt{6929} = 83.2406$ \therefore The square root of 6929 is 83.239

10.25725

Solution:

From square root table we know, Square root of 25725 is: $\sqrt{25725} = 160.3901$ \therefore The square root of 25725 is 160.41

11. 1312.

Solution: From square root table we know, Square root of 1312 is: $\sqrt{1312} = 36.2215$

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 \therefore The square root of 1312 is 36.22

12.4192

Solution: From square root table we know, Square root of 4192 is: $\sqrt{4192} = 64.7456$ \therefore The square root of 4192 is 64.75

13. 4955

Solution: From square root table we know, Square root of 4955 is: $\sqrt{4955} = 70.3917$ \therefore The square root of 4955 is 70.39

14.99/144

Solution:

From square root table we know, Square root of 99/144 is: $\sqrt{(99/144)} = 0.82915$ \therefore The square root of 99/144 is 0.829

15. 57/169 Solution:

From square root table we know, Square root of 57/169 is: $\sqrt{(57/169)} = 0.58207$ \therefore The square root of 57/169 is 0.581

16. 101/169 Solution:

From square root table we know, Square root of 101/169 is: $\sqrt{(101/169)} = 0.77306$ \therefore The square root of 57/169 is 0.773

17. 13.21 Solution:

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From square root table we know, Square root of 13.21 is: $\sqrt{13.21} = 3.6345$ \therefore The square root of 13.21 is 3.635

18. 21.97

Solution:

From square root table we know, Square root of 21.97 is: $\sqrt{21.97} = 4.6872$ \therefore The square root of 21.97 is 4.6872

19.110

Solution:

From square root table we know, Square root of 110 is: $\sqrt{110} = 10.4880$ \therefore The square root of 110 is 10.488

20.1110

Solution: From square root table we know, Square root of 1110 is: $\sqrt{1110} = 33.3166$ \therefore The square root of 1110 is 33.317

21.11.11

Solution: From square root table we know, Square root of 11.11 is: $\sqrt{11.11} = 3.33316$ \therefore The square root of 11.11 is 3.333

22. The area of a square field is 325m². Find the approximate length of one side of the field.

Solution:

We know that the given area of the field = 325 m^2 To find the approximate length of the side of the field we will

To find the approximate length of the side of the field we will have to calculate the square root of 325

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 $\sqrt{325} = 18.027$ m

: The approximate length of one side of the field is 18.027 m

23. Find the length of a side of a square, whose area is equal to the area of a rectangle with sides 240 m and 70 m.

Solution:

We know that from the question,

Area of square = Area of rectangle Side² = 240×70

Side =
$$\sqrt{(240 \times 70)}$$

$$=\sqrt{(10\times10\times2\times2\times2\times3\times7)}$$

- $=20\sqrt{42}$
- $= 20 \times 6.48$

 \therefore The length of side of the square is 129.60 m

