

## Squares and Square Roots Ex 3.8 Q1

## Answer:

(i) We can find the square root up to three decimal places by using long division until we get four decimal places and then rounding it to three decimal places.

2.2360	
2 2	5.000000 4
42 2	100 84
443	1600 1329
4466 6	27100 26796
	304

Hence, the square root of 5 up to three decimal places is 2.236.

(ii) We can find the square root up to three decimal places by using long division until we get four decimal places and then rounding it to three decimal places.

2.6457	
2	7
2	4
46	300
6	276
524	2400
4	2096
285	30400
5	26425
907	397500
7	370349
	27151

Hence, the square root of 7 up to three decimal places is 2.646.

(iii) We can find the square root up to three decimal places by using long division until we get four decimal places and then rounding it to three decimal places.

4.1231	
4	17
4	16
81	100
1	81
822	1900
2	1644
8243	25600
3	24729
2461	87100
1	82461
93	4639

Hence, the square root of 17 up to three decimal places is 4.123.

(iv) We can find the square root up to three decimal places by using long division until we get four decimal places and then rounding it to three decimal places.

4.1231	
4	20
4	16
84	400
4	336
887	6400
7	6209
8942	19100
2	17884
89441	121600
1	89441
100	32159

Hence, the square root of 20 up to three decimal places is 4.472.

(v) We can find the square root up to three decimal places by using long division until we get four decimal places and then rounding it to three decimal places.

8.1240	
8	66
8	64
161	200
1	161
1622	.3900
2	3244
6244	.65600
4	64976
	62400

Hence, the square root of 66 up to three decimal places is 8.124.

(vi) We can find the square root up to three decimal places by using long division until we get four decimal places and then rounding it to three decimal places.

	20.6639	
2	427	
2	4	
406	2700	
6	2436	
4126	26400	
6	24756	
41323	164400	
3	123969	
413269	4043100	
9	3719421	
8	323679	

Hence, the square root of 427 up to three decimal places is 20.664.

(vii) We can find the square root up to three decimal places by using long division until we get four decimal places and then rounding it to three decimal places.

	1.3038
1	1.7
1	1
23	.70
3	69
2603	10000
3	7809
26068	219100
8	208544
	10556

Hence, the square root of 1.7 up to three decimal places is 1.304.

(viii) We can find the square root up to three decimal places by using long division until we get four decimal places and then rounding it to three decimal places.

4.8062	
4	23.1
4	16
88	710
8	704
9606	60000
6	57636
96122	236400
2	192244
	44156
	777

Hence, the square root of 23.1 up to three decimal places is 4.806.

(ix) We can find the square root up to three decimal places by using long division until we get four decimal places and then rounding it to three decimal places.

	1.5811
1	2.5
1	1
25	150
5	125
308	2500
8	2464
3161	3600
1	3161
31621	43900
1	31621
	12279

Hence, the square root of 2.5 up to three decimal places is 1.581.

(x) We can find the square root up to three decimal places by using long division until we get four decimal places and then rounding it to three decimal places.

15.4146	
1	237.615
1	1
25	137
5	125
304	1261
4	1216
3081	4515
1	3081
30824	143400
4	123296
308286	2010400
6	1849716
	160684
	7

Hence, the square root of 237.615 up to three decimal places is 15.415.

(xi) We can find the square root up to three decimal places by using long division until we get four decimal places and then rounding it to three decimal places.

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