

Estimate an irrational square root between integers

NAME	DATE	SCORE / 10
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1 $\sqrt{94}$ is between which two whole numbers? Which one is $\sqrt{94}$ nearer to?

- ☐ Between 10 and 11, nearer 10 ☐ Between 9 and 10, nearer 9
☐ Between 9 and 10, nearer 10 ☐ Between 8 and 9, nearer 9

2 Write a whole number from 79 to 101 whose square root is between 9 and 10.

3 $\sqrt{27}$ is between which two whole numbers? Which one is $\sqrt{27}$ nearer to?

- ☐ Between 6 and 7, nearer 6 ☐ Between 4 and 5, nearer 5 ☐ Between 5 and 6, nearer 6
☐ Between 5 and 6, nearer 5

4 Write a whole number from 120 to 145 whose square root is between 11 and 12.

5 $\sqrt{40}$ is between which two whole numbers? Which one is $\sqrt{40}$ nearer to?

- ☐ Between 6 and 7, nearer 7 ☐ Between 6 and 7, nearer 6 ☐ Between 5 and 6, nearer 6
☐ Between 7 and 8, nearer 7

6 Write a whole number from 45 to 66 whose square root is between 7 and 8.

7

$\sqrt{139}$ is between which two whole numbers? Which one is $\sqrt{139}$ nearer to?

- ☐ Between 12 and 13, nearer 12 ☐ Between 11 and 12, nearer 11
☐ Between 11 and 12, nearer 12 ☐ Between 10 and 11, nearer 11
-

8

Write a whole number from 140 to 173 whose square root is between 12 and 13.

9

$\sqrt{187}$ is between which two whole numbers? Which one is $\sqrt{187}$ nearer to?

- ☐ Between 12 and 13, nearer 13 ☐ Between 14 and 15, nearer 14
☐ Between 13 and 14, nearer 13 ☐ Between 13 and 14, nearer 14
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10

Write a whole number from 99 to 124 whose square root is between 10 and 11.

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1 Between 9 and 10, nearer 10

3 Between 5 and 6, nearer 5

5 Between 6 and 7, nearer 6

7 Between 11 and 12, nearer 12

9 Between 13 and 14, nearer 14

2 82

Any one of these is right too: 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99.

4 122

Any one of these is right too: 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143.

6 50

Any one of these is right too: 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63.

8 145

Any one of these is right too: 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168.

10 101

Any one of these is right too: 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120.