* Approximating Square Roots Practice.

Use your square root estimation skills to approximate each square root.

1. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
2. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
3. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
4. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
5. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
6. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
7. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
8. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
9. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
10. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
11. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
12. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
13. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
14. is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. It is closer to \_\_\_\_.
15. Explain how you could find between which two consecutive whole numbers you would plot on a number line. Also explain how you can determine to which of these two whole numbers is closest.

|  |  |
| --- | --- |
| Perfect Squares | |
| Square root | Perfect square |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
| 8 |  |
| 9 |  |
| 10 |  |
| 11 |  |
| 12 |  |
| 13 |  |
| 14 |  |
| 15 |  |
| 16 |  |
| 17 |  |

\_\_\_\_\_\_\_\_\_\_\_ is between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_.

Its approximation is closer to \_\_\_\_\_\_\_\_\_.

1. Find perfect squares surrounding the radicand.
2. Find the difference between the perfect square and the radicand.
3. The smaller difference, the closer the approximation.

**Approximating square roots**