

**Lesson 6 Homework Practice****Square Roots and Cube Roots**

Find each square root.

- |                            |                                      |                                     |
|----------------------------|--------------------------------------|-------------------------------------|
| 1. $\sqrt{100}$ <b>10</b>  | 2. $\sqrt{144}$ <b>12</b>            | 3. $\sqrt{-36}$ <b>not possible</b> |
| 4. $\sqrt{121}$ <b>11</b>  | 5. $\sqrt{-148}$ <b>not possible</b> | 6. $-\sqrt{4}$ <b>-2</b>            |
| 7. $-\sqrt{9}$ <b>-3</b>   | 8. $-\sqrt{49}$ <b>-7</b>            | 9. $\sqrt{256}$ <b>16</b>           |
| 10. $\sqrt{529}$ <b>23</b> | 11. $\sqrt{361}$ <b>19</b>           | 12. $-\sqrt{196}$ <b>-14</b>        |

Then estimate each square root to the nearest integer.

- |                            |                            |                              |
|----------------------------|----------------------------|------------------------------|
| 13. $-\sqrt{2}$ <b>-1</b>  | 14. $\sqrt{38}$ <b>6</b>   | 15. $\sqrt{249}$ <b>16</b>   |
| 16. $\sqrt{131}$ <b>11</b> | 17. $\sqrt{7}$ <b>3</b>    | 18. $\sqrt{52}$ <b>7</b>     |
| 19. $\sqrt{168}$ <b>13</b> | 20. $\sqrt{499}$ <b>22</b> | 21. $-\sqrt{217}$ <b>-15</b> |

Find each cube root.

- |                                  |                                  |                                |
|----------------------------------|----------------------------------|--------------------------------|
| 22. $\sqrt[3]{-125}$ <b>-5</b>   | 23. $\sqrt[3]{343}$ <b>7</b>     | 24. $\sqrt[3]{8}$ <b>2</b>     |
| 25. $\sqrt[3]{3375}$ <b>15</b>   | 26. $\sqrt[3]{729}$ <b>9</b>     | 27. $\sqrt[3]{-1}$ <b>-1</b>   |
| 28. $\sqrt[3]{-8000}$ <b>-20</b> | 29. $\sqrt[3]{512}$ <b>8</b>     | 30. $\sqrt[3]{-729}$ <b>-9</b> |
| 31. $\sqrt[3]{1331}$ <b>11</b>   | 32. $\sqrt[3]{-2744}$ <b>-14</b> | 33. $\sqrt[3]{64}$ <b>4</b>    |

Estimate each cube root to the nearest integer.

- |                                |                                  |                                  |
|--------------------------------|----------------------------------|----------------------------------|
| 34. $\sqrt[3]{647}$ <b>9</b>   | 35. $\sqrt[3]{325}$ <b>7</b>     | 36. $\sqrt[3]{-805}$ <b>-9</b>   |
| 37. $\sqrt[3]{1603}$ <b>12</b> | 38. $\sqrt[3]{-3858}$ <b>-16</b> | 39. $\sqrt[3]{-4551}$ <b>-17</b> |
| 40. $\sqrt[3]{181}$ <b>6</b>   | 41. $\sqrt[3]{-1006}$ <b>-10</b> | 42. $\sqrt[3]{7852}$ <b>20</b>   |

43. A square tarpaulin covering a softball field has an area of 441 m<sup>2</sup>. What is the length of one side of the tarpaulin?    **21 m**
44. The volume of a cube is 2744 m<sup>3</sup>. What is the length of an edge of the cube?    **14 m**
45. The highest observation deck on the Eiffel Tower in Paris is about 899 feet above the ground. About how far could a visitor see on a clear day? Use the equation  $d = 1.22 \cdot \sqrt{h}$  where  $d$  is the distance to the horizon in miles and  $h$  is the person's distance from the ground in feet.  
**about 36.6 mi**

# Lesson 11 5 Practice A Square Root Functions

**S Baum**



## **Lesson 11 5 Practice A Square Root Functions:**

## Decoding **Lesson 11 5 Practice A Square Root Functions**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Lesson 11 5 Practice A Square Root Functions**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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