Grade 6 Gifted

## Day 2

| Standards | 8.EEI.2 Investigate concepts of square and cube roots. <br> b. Evaluate square roots of perfect squares. <br> c. Evaluate cube roots of perfect cubes. |
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| Learning Targets <br> Can Statements | I can evaluate perfect square roots and perfect cube roots. |
| Essential Question(s) | What are other real-world situations that could benefit using square and cube <br> roots? |
| Resources | No additional resources needed. However, all answers should be written on a <br> separate sheet of paper. |
| Learning Activities or | 1. Complete at least 3 topics of your ALEKS pathway. (if available) <br> Experiences |
| 2. Review attached notes and complete the practice problems. <br> 3. Complete the "Today's Thought" activity. |  |

NOTE: For additional practice aligned to your grade for SC READY review please refer to the $6^{\text {th }}$ grade level assignments.

Square Root Lesson Notes


## Cube Root Lesson Notes



## Today's Thought

1. Adele knows the area of a square to be $144 \mathrm{~cm}^{2}$. If $s^{2}=144$, what is the value of $s$ ?
2. What value is the solution of the equation $x^{3}=125$ ?
3. Which expression has the greatest value when simplified?
a. $-\sqrt[3]{27}$
b. $(3)^{-2}$
c. $(-3)^{3}$
d. $-\sqrt{81}$
4. Which list is ordered from least to greatest?
a. $(-64)^{3},-\sqrt{64^{2}},(64)^{-2}, \sqrt[3]{64^{3}}$
b. $(-64)^{3},-\sqrt{64^{2}}, \sqrt[3]{64^{3}},(64)^{-2}$
c. $-\sqrt{64^{2}},(-64)^{3},(64)^{-2}, \sqrt[3]{64^{3}}$
d. $(64)^{-2}, \sqrt[3]{64^{3}},-\sqrt{64^{2}},(-64)^{3}$
