17 A student is approximating the locations of square roots and cube roots of integers on a number line.

a. Between which two consecutive integers on the number line is $\sqrt{55}$ located? Show or explain how you got your answer.

b. What is the value of $\sqrt{55}$ to the nearest tenth? Show or explain how you got your answer.

The value of $\sqrt{m}$, where m is an integer, is located between 11 and 12 on the number line.

c. What could be the value of m? Show or explain how you got your answer.

The value of $\sqrt[3]{n}$, where n is an integer, is also located between 11 and 12 on the number line.

d. What could be the value of n? Show or explain how you got your answer.