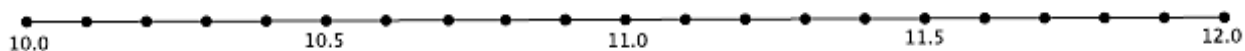


Lesson Summary

Finding the first few places of the decimal expansion of numbers allows us to compare the numbers.

Problem Set

- Which number is smaller, $\sqrt[3]{343}$ or $\sqrt{48}$? Explain.
- Which number is smaller, $\sqrt{100}$ or $\sqrt[3]{1000}$? Explain.
- Which number is larger, $\sqrt{87}$ or $\frac{929}{99}$? Explain.
- Which number is larger, $\frac{9}{13}$ or $0.\overline{692}$? Explain.
- Which number is larger, 9.1 or $\sqrt{82}$? Explain.
- Place each of the following numbers at its approximate location on the number line: $\sqrt{144}$, $\sqrt[3]{1000}$, $\sqrt{130}$, $\sqrt{110}$, $\sqrt{120}$, $\sqrt{115}$, and $\sqrt{133}$. Explain how you knew where to place the numbers.



- Which of the two right triangles shown below, measured in units, has the longer hypotenuse? Approximately how much longer is it?

