

Lesson 7

Use calculator to find irrational number

Step 1. Enter $\sqrt{2}$ in calculator. The decimal is the approximate of $\sqrt{2}$. You can identify where $\sqrt{2}$ is by using the nearest tenth, so, $\sqrt{2}$ lies between $1.4 < \sqrt{2} < 1.5$.

Step 2. Graph the interval $1.4 < \sqrt{2} < 1.5$ on number line



Step 3.

The approximate value of $\sqrt{2}$ to 2 decimal places is 1.41. It is a rational number because any decimal with a finite number of decimal places is a rational number. 1.41 is closer to 1.4 than 1.5, so $\sqrt{2}$ is located closer to 1.4 on the number line.

Step 4. Use 1.41 to approximate $\sqrt{2}$ on the number line.

