

Essential Question: How do I approximate the value of irrational numbers and place them on a number line?

Questions:

Notes:

Irrational numbers _____ be written as fractions.

In decimal form, irrational numbers do not _____ or _____.

To estimate the value of an irrational number, find the two _____ _____ the irrational number is between. Then, figure out which perfect square it is closer to.

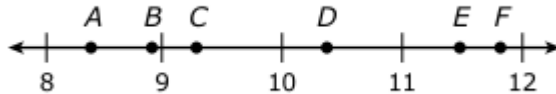
→ A perfect square is a number that has a whole number square root

a. $\sqrt{115}$: between _____ and _____

b. $\sqrt{73}$: between _____ and _____

c. $\sqrt{200}$: between _____ and _____

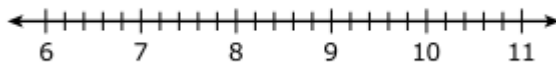
In each blank, record the appropriate letter from the number line that shows the approximate location of the irrational number.



_____ $\sqrt{71}$ _____ $\sqrt{108}$ _____ $\sqrt{79}$

_____ $\sqrt{87}$ _____ $\sqrt{140}$ _____ $\sqrt{132}$

Locate and label the points on the number line by estimating the value of the irrational number.



A $\sqrt{53}$

B $\sqrt{88}$

C $\sqrt{110}$

