

Zooming Decimals— Tenths, Hundredths, and Beyond

Name: _____

You will estimate the location of an unlabeled point on a number line.

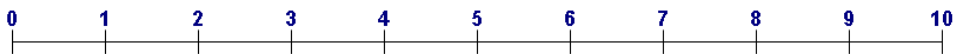
EXPLORE

1. Open **Zooming Decimals--Tenths Hundredths and Beyond.gsp**.
Go to page “Tenths.”

Work with a partner. Take turns estimating the location of the red point on the number line. Follow these steps:

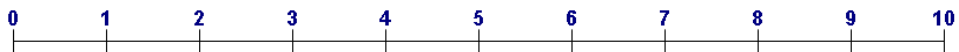
- Partner 1 drags the red point anywhere on the number line.
- Partner 2 estimates its location.
- Partner 1 presses the *Zoom* button.
- Partner 2 identifies the exact location of the point.
- Partner 1 presses the *Show Location* button to check.
- Partner 1 presses the *Reset* button and switch roles.

2. Sketch the location of the red point on the number line below. Write down your estimate of its location. Then write the point’s actual location.



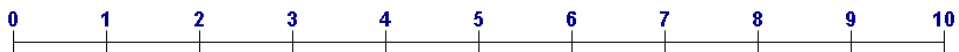
Estimate: _____ Actual Location: _____

3. Sketch the location of the red point on the number line below. Write down your estimate of its location. Then write the point’s actual location.



Estimate: _____ Actual Location: _____

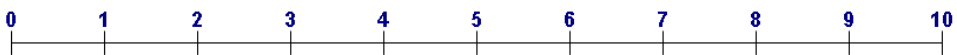
4. Now go to pages “Hundredths” and “Thousandths.” Sketch the location of the red point on the number line below. Estimate the location of the point before magnifying each time. Write down each estimate. Then write the point’s actual location.



Estimates: _____

Actual Location: _____

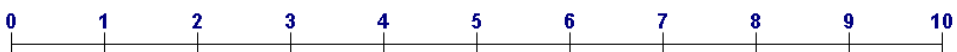
5. Sketch the location of the red point on the number line below. Estimate the location of the point before magnifying each time. Write down each estimate. Then write the point's actual location.



Estimates: _____

Actual Location: _____

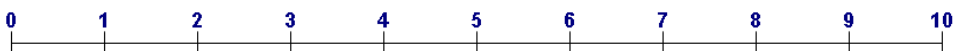
6. Sketch the location of the red point on the number line below. Estimate the location of the point before magnifying each time. Write down each estimate. Then write the point's actual location.



Estimates: _____

Actual Location: _____

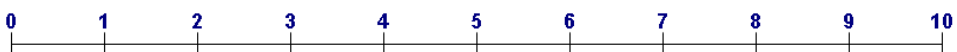
7. Sketch the location of the red point on the number line below. Estimate the location of the point before magnifying each time. Write down each estimate. Then write the point's actual location.



Estimates: _____

Actual Location: _____

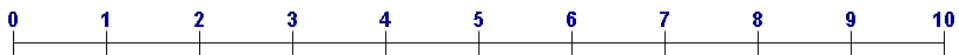
8. Sketch the location of the red point on the number line below. Estimate the location of the point magnifying in each time. Write down each estimate. Then write the point's actual location.



Estimates: _____

Actual Location: _____

9. Sketch the location of the red point on the number line below. Estimate the location of the point before magnifying each time. Write down each estimate. Then write the point's actual location.



Estimates: _____

Actual Location: _____

10. Explain what strategies you used to estimate the location of the red point before you magnified the number line.
