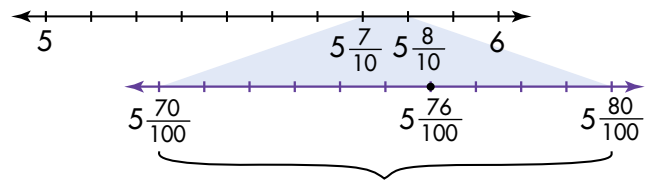
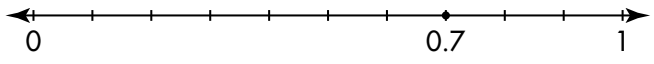


# Homework & Practice 12-2

## Fractions and Decimals on the Number Line

### Another Look!

You can use a number line to locate decimals and fractions.



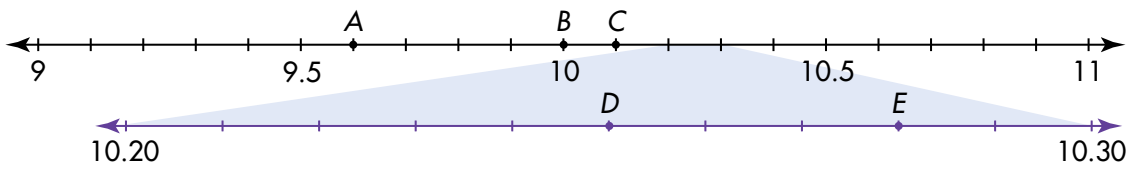
There are 10 sections between each whole number. That means each section is one tenth, or 0.1. You can count the sections to determine the decimal for the point on the number line.

7 sections means the point is at 0.7.

There are ten sections between each tenth. That means each section is one hundredth, or  $\frac{1}{100}$ . You can count the sections to determine the fraction for the point on the number line.

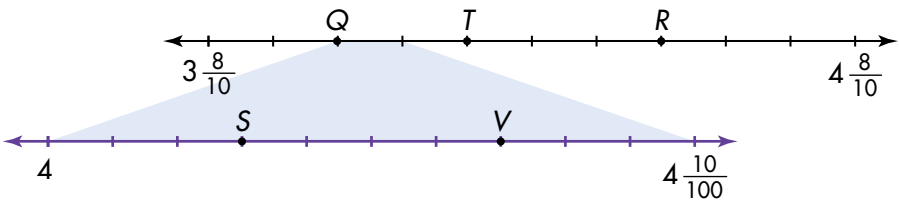
6 sections means the point is at  $5\frac{76}{100}$ .

For 1–5, name the point on the number line for each decimal.



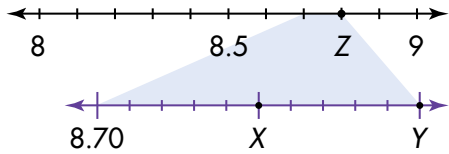
1. 10.1
2. 10.28
3. 10.25
4. 9.6
5. 10.0

For 6–10, name the fraction for each point on the number line.



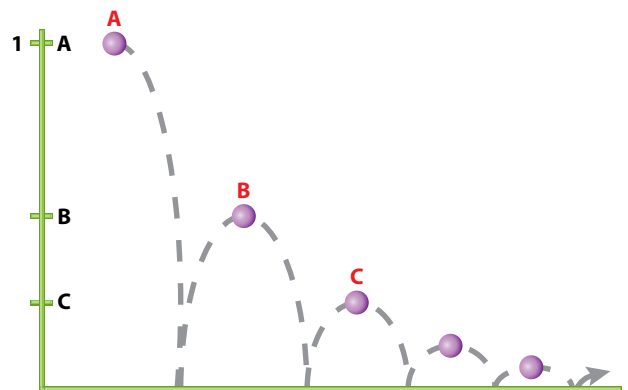
6. Q
7. R
8. S
9. T
10. V

11. Which two points on the number line represent the same point?



12. © **MP.4 Model with Math** Ben says  $7\frac{9}{100}$  must be less than  $7\frac{2}{10}$  because 9 hundredths is less than 2 tenths. Do you agree? Draw a number line to show how you know.

13. **Higher Order Thinking** According to the Greek mathematician Zeno, if each bounce of a ball is half the height of the bounce before it, the ball will never stop bouncing. Write the fractions in hundredths that should be written at points B and C.



### © Common Core Assessment

14. The girls have to each write a 10-page paper.

Joanna has written 7 pages.

Amber has written 3 pages.

Esme has written 6 pages.

Lisa has written 9 pages.

Choose names to match the girl with the decimal that represents how much of the paper she written.

The scale on a bar graph is a vertical number line.

