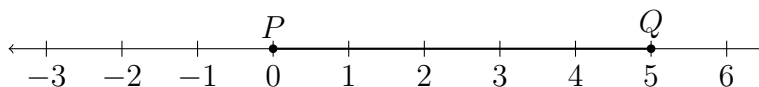


Name:

1.2 Homework: Number line and algebra practice

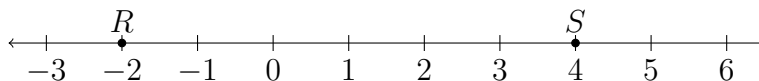
1. Given \overline{PQ} as shown on the number line.



What is the length of the segment \overline{PQ} ?

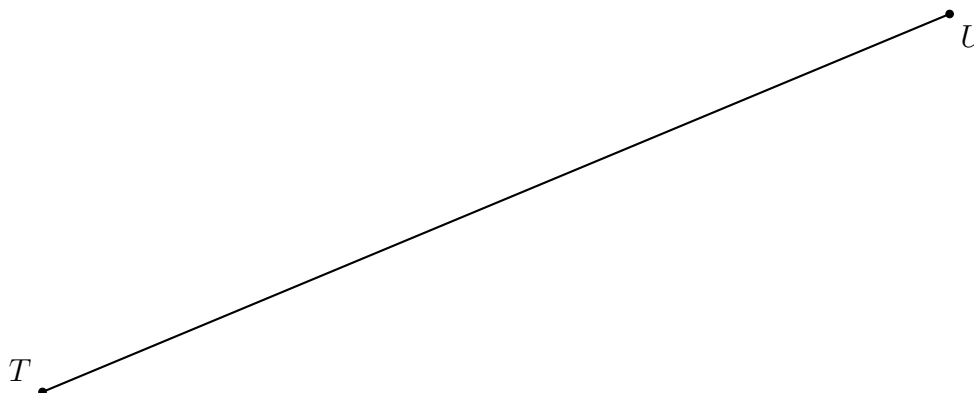
$PQ =$

2. Two points $R(-2)$, $S(4)$ are shown on the number line.



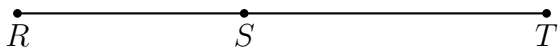
What is the distance between R and S ? Show your work as an equation.

3. Measure the segment \overline{TU} . Write its length in centimeters (expressed as an equation).

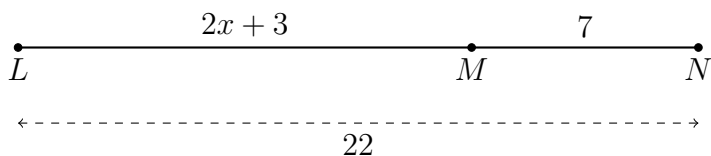


4. Points that fall on the same straight line are _____.

5. Given \overline{RST} , $RS = 3\frac{2}{3}$, and $ST = 4\frac{2}{3}$. Find RT (expressed as a fraction, not a decimal).



6. As shown, three collinear points with $LM = 2x + 3$, $MN = 7$, $LN = 22$. Find x .



- (a) Write down an equation to represent the situation.
- (b) Solve for x .
- (c) Check your answer.
7. Two textbooks are stacked up. One is a heavy calculus book, two inches thick. The other is one inch thick, *Topics in Topography*. How tall is the stack of both books?
8. Dr. Huson is 5 foot 7 inches tall. If he stepped up onto a 6 inch box how tall would he be then?