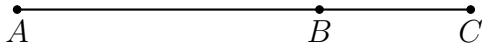


Name:

1.7 Homework: Calculations in geometry

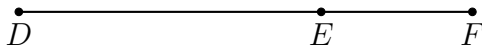
1. Given \overline{ABC} , $AB = 84$, and $AC = 116$.

Find BC .

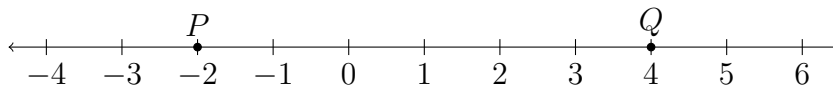


2. Given \overline{DEF} , $DE = 7\frac{1}{3}$, and $EF = 3\frac{1}{6}$.

Find DF .

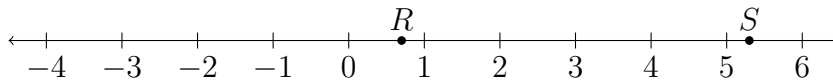


3. Given \overleftrightarrow{PQ} as shown on the number line.



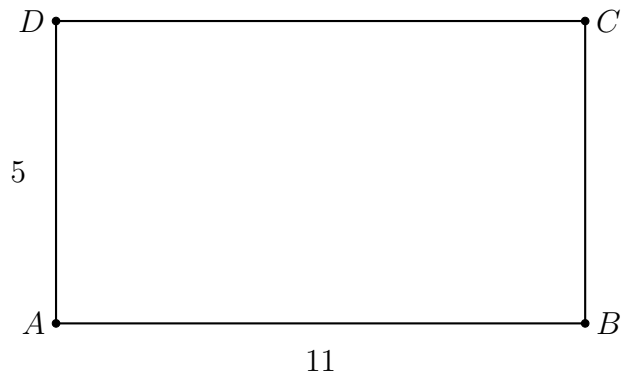
What is the exact distance on the number line between the points P and Q ?

4. Given \overleftrightarrow{RS} as shown on the number line, with $R = 0.7$ and $S = 5.3$.

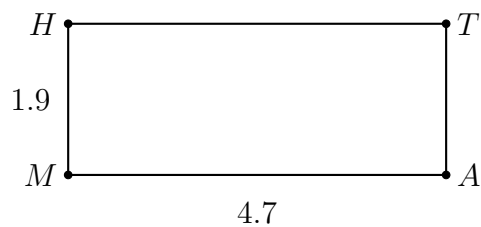


What is the distance on the number line between the points R and S ?

5. Given the rectangle $ABCD$ shown below, with $AB = 11$ and $AD = 5$. Find the area of the rectangle.



6. Given the rectangle $MATH$ shown below, with $MA = 4.7$ and $MH = 1.9$. Find the area of the rectangle.



7. In the following two problems, solve for the value of x .

(a) $\frac{1}{2}(x + 1) = -5$

(b) $x - 4.5 = 2.8 - x$