BECA / Dr. Huson / Geometry 01-Intro   Name:
pset ID: 15

1-7HW-Calculations

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

   Find BC.

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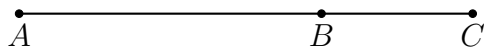
2. Given $\overline{DEF}$, $DE = 7\frac{1}{3}$, and $EF = 3\frac{1}{6}$.

   Find DF.

   D ————————————— E ———— F
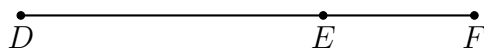
3. Given $\overleftrightarrow{PQ}$ as shown on the number line.

   $$\begin{array}{ccccccccccc} & P & & & & & & & Q & & \\ \hline -4 & -3 & -2 & -1 & 0 & 1 & 2 & 3 & 4 & 5 & 6 \end{array}$$
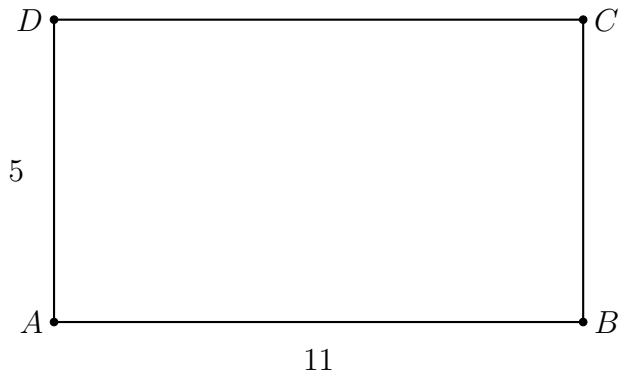
   What is the exact distance on the number line between the points P and Q?

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

   $$\begin{array}{ccccccccccc} & & & & & R & & & & S & \\ \hline -4 & -3 & -2 & -1 & 0 & 1 & 2 & 3 & 4 & 5 & 6 \end{array}$$
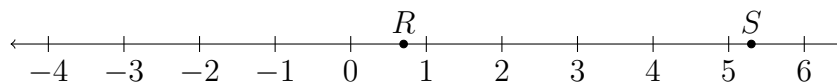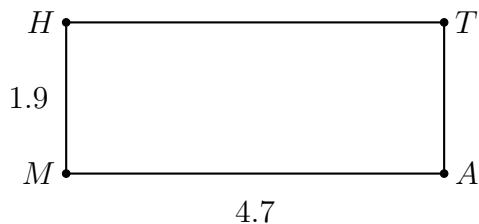
   What is the distance on the number line between the points R and S?

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

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D •————————————————————————• C




5




A •————————————————————————• B
              11
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6. Given the rectangle $MATH$ shown below, with $MA = 4.7$ and $MH = 1.9$. Find the area of the rectangle.

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H •——————————————————• T

1.9

M •——————————————————• A
          4.7
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7. In the following two problems, solve for the value of x.

    (a) $\frac{1}{2}(x + 1) = -5$ (b) $x - 4.5 = 2.8 - x$