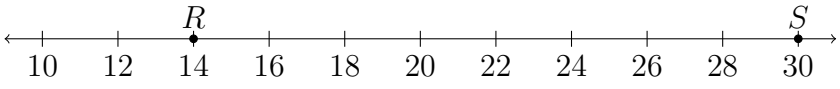
BECA / Dr. Huson / Geometry 02-Midpoint+distance Name:
pset ID: 22

2-5DNQ-Segments+area

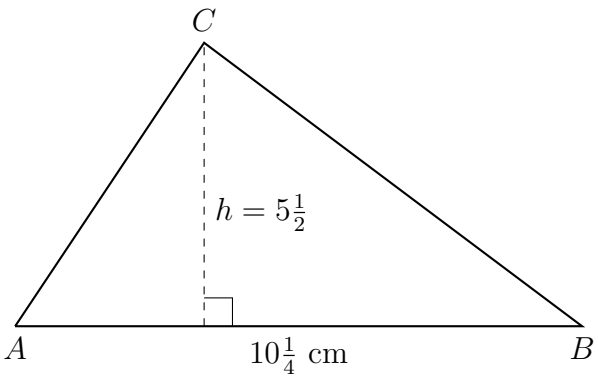
1. Complete the construction of a perpendicular bisector of $\overline{AB}$.

2. Given $\overleftrightarrow{RS}$ as shown on the number line.



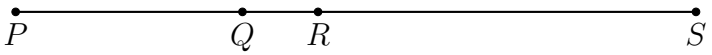
Mark and label the point M that bisects $\overline{RS}$.

3. Find the area of $\triangle ABC$. The altitude h of the triangle is $5\frac{1}{2}$ centimeters and the base $AB = 10\frac{1}{4}$ cm. (diagram not to scale)



4. Given $\overline{PQRS}$, $PQ = 2\frac{3}{4}$, $QR = \frac{3}{4}$, and $RS = 4\frac{1}{2}$. (diagram not to scale)

   Find PS.



5. Given that M is the midpoint of $\overline{AB}$. $AM = 5x - 4$, $BM = 3x + 10$. Find AB. Complete all the steps for full credit (including a fully-labeled drawing and the check)