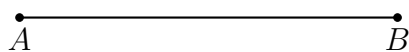


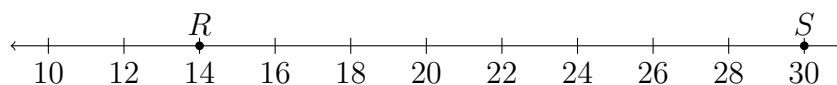
Name:

2.5 Pop Quiz: Segment & Area Calculations

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

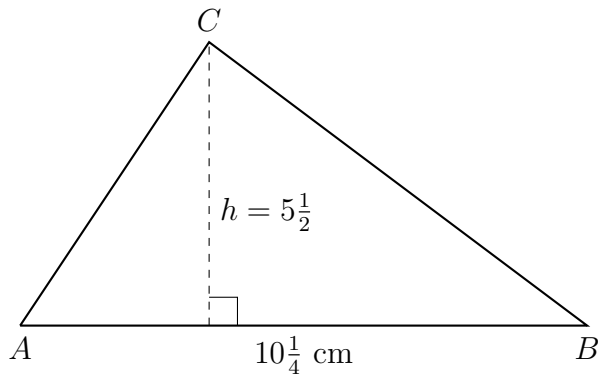


2. Given \overleftrightarrow{RS} as shown on the number line.



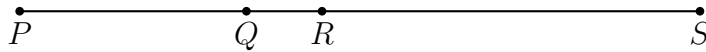
Mark and label the point M that bisects \overline{RS} .

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)