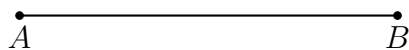


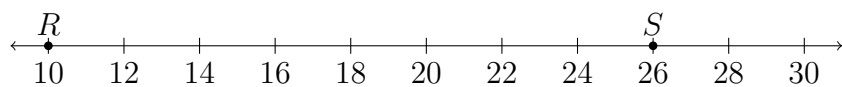
Name:

**2.7 Re-Quiz: Segment & Area Calculations**

1. Complete the construction of an equilateral triangle with one side as  $\overline{AB}$ .

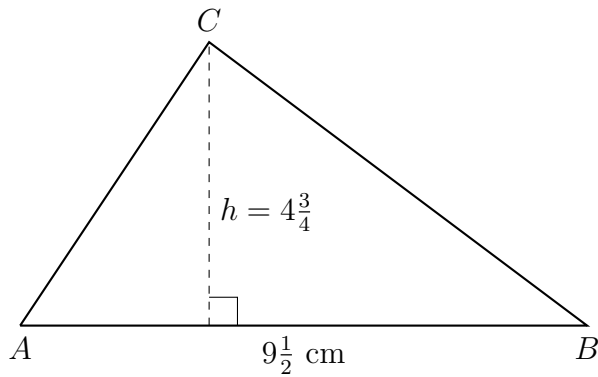


2. Given  $\overleftrightarrow{RS}$  as shown on the number line.



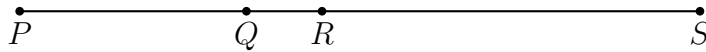
Mark and label the point  $M$  that bisects  $\overline{RS}$ .

3. Find the area of  $\triangle ABC$ . The altitude  $h$  of the triangle is  $4\frac{3}{4}$  centimeters and the base  $AB = 9\frac{1}{2}$  cm. (diagram not to scale)



4. Given  $\overline{PQRS}$ ,  $PQ = 3\frac{1}{4}$ ,  $QR = 1\frac{1}{4}$ , and  $RS = 5\frac{1}{2}$ . (diagram not to scale)

Find  $PS$ .



5. Given that  $M$  is the midpoint of  $\overline{AB}$ .  $AM = 7x + 4$ ,  $BM = 5x + 8$ . Find  $AB$ .  
Complete all the steps for full credit (including a fully-labeled drawing and the check)