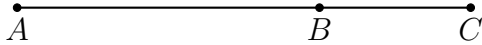


Name:

## 2-9HW-Calculations

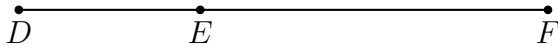
1. Given  $\overline{ABC}$ ,  $BC = 36.9$ , and  $AC = 87.3$ .

Find  $AB$ .

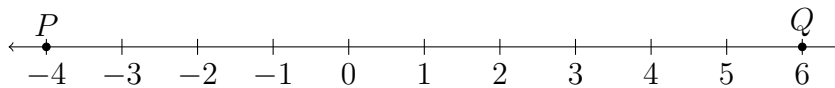


2. Given  $\overline{DEF}$ ,  $DF = 75$  and  $\overline{DE}$  is half the length of  $\overline{EF}$ .

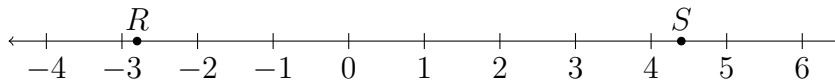
Find  $DE$ .



3. Given  $\overleftrightarrow{PQ}$  as shown on the number line. Divide segment  $\overline{PQ}$  into five congruent segments by marking and labeling the points  $R$ ,  $S$ ,  $T$ , and  $U$  on the numberline.



4. Given  $\overleftrightarrow{RS}$  as shown on the number line, with  $R = -2.8$  and  $S = 4.4$ .

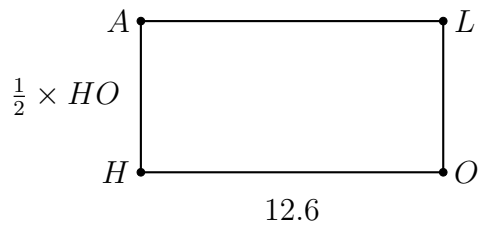


The points  $T$  and  $U$  trisect  $\overline{RS}$ . Find their values, and mark and label them on the numberline.

5. The rectangle  $ABCD$ , shown below, has a perimeter of 42, and  $AB = 13$ . Find the area of the rectangle.



6. Given the rectangle  $HOLA$  shown below, with length  $HO = 12.6$ . The width  $AH$  is one-half of the length  $HO$ . Find the perimeter of the rectangle.



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

(a)  $\frac{2}{7}(16x + 5) = 10\frac{4}{7}$

(b)  $x^2 - 8x - 9 = 0$