1.7 Exit Note Quiz: Length and perimeter, geometric notation
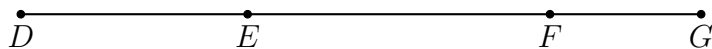
1. Given $\overleftrightarrow{JK}$ as shown on the number line.

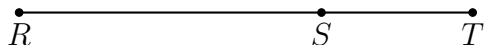   What is the midpoint between the points J and K?

2. Do Now: Given $\overline{DEFG}$, $DE = 3\frac{1}{4}$, $EF = 6\frac{1}{4}$, and $FG = 1\frac{3}{4}$. (diagram not to scale)

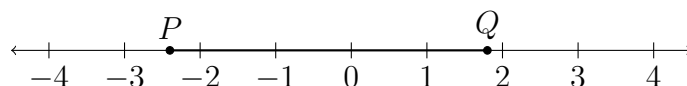   Find DG, expressed as a fraction, not a decimal.

3. Given $\overline{RST}$, $RS = 5\frac{3}{4}$, and $RT = 8\frac{3}{8}$.

   (a) Find ST as a fraction.

   (b) The postulate used in this problem is the _____.

4. Given $P(-2.4)$ and $Q(1.8)$, as shown on the number line. Find the length of the line segment $\overline{PQ}$.

5. Given $\overline{RST}$, S bisects $\overline{RT}$, $RS = 17x - 10$, $ST = 13x - 2$. Find RT.
   Complete all the steps for full credit.

6. Given $\overline{FGHI}$, $FG = 8\frac{1}{6}$, $GH = 12\frac{1}{3}$, and $HI = 5\frac{1}{2}$. (diagram not to scale)

   Find FI.

F •――――――――――――• G ――――――――――――――• H ―――――――• I

7. The perimeter of a rectangle is 54 centimeters. If its length is 6 cm., what is its width?