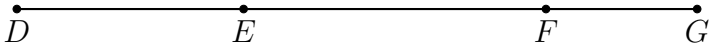
Name:

BECA / Dr. Huson / Geometry 03 Parallels and transversals

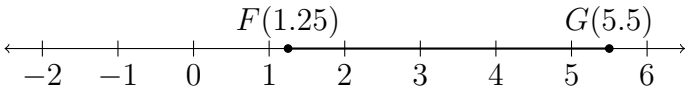
3.5 Exit Note: Fractions and notation

1. Given $\overline{DEFG}$, $DE = 3\frac{1}{2}$, $EF = 7\frac{1}{2}$, and $FG = 2\frac{1}{2}$. (diagram not to scale)

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

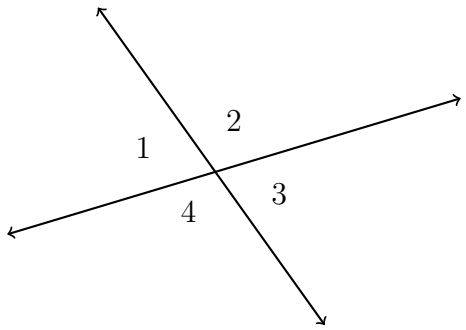


2. Given $\overline{FG}$ as shown. What is the distance on the number line between the points?



3. Given $\overline{RST}$, $RS = 3\frac{2}{3}$, and $RT = 9\frac{1}{3}$. Find ST (expressed as a fraction, not a decimal).

4. As shown below, two lines intersect making four angles: $\angle 1$, $\angle 2$, $\angle 3$, and $\angle 4$.



   (a) Which angle is opposite $\angle 1$? _____

   (b) Name an angle that is adjacent to $\angle 4$. _____

   (c) True or false, $\angle 2$ and $\angle 4$ are vertical angles. _____

5. Write the appropriate name for the type of angle depending on its measure in degrees. (acute, right, obtuse, or straight)

   (a) $m\angle = 90$: _____

   (b) $90 < m\angle < 180$: _____

   (c) $0 < m\angle < 90$: _____

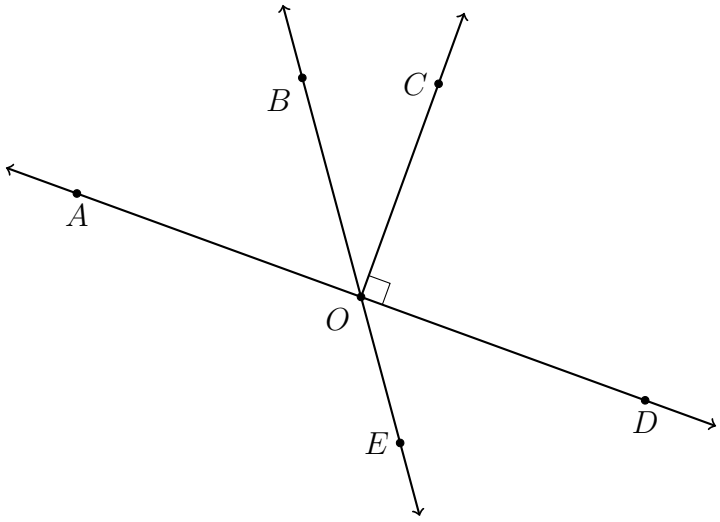
   (d) $m\angle = 180$: _____

6. Given the diagram below.

   (a) Name an angle that is vertical to $\angle DOE$: _____

   (b) Name the ray that is opposite to $\overrightarrow{OB}$: _____

   (c) Name an angle that is complementary to $\angle AOB$: _____



7. Given isosceles $\triangle XYZ$ with $\overline{XY} \cong \overline{XZ}$. On the diagram mark the congruent line segments with tick marks.