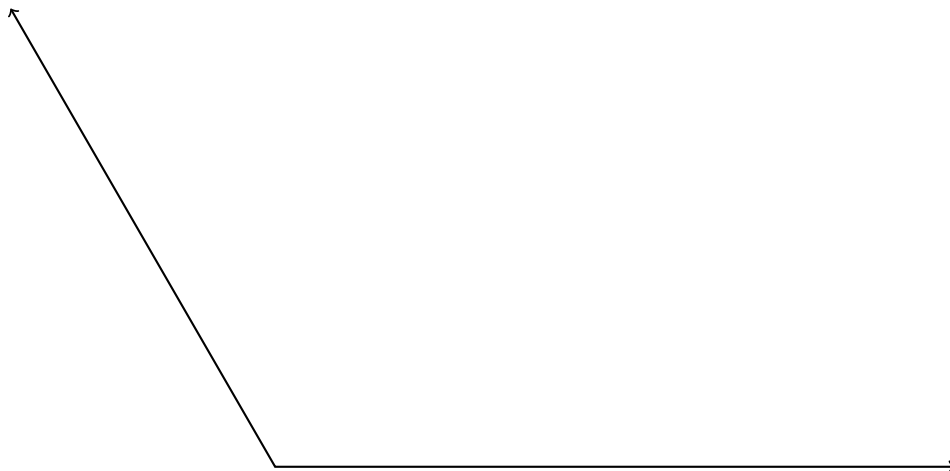


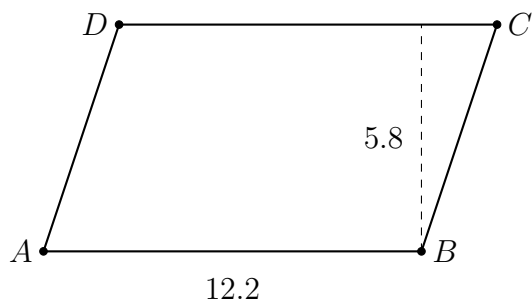
Name:

**3.3 Homework: Segment & Area Calculations**

1. Complete the construction of the bisector of the given angle.



2. Find the area of the parallelogram  $ABCD$  shown below, with  $AB = 12.2$  and height  $h = 5.8$ .

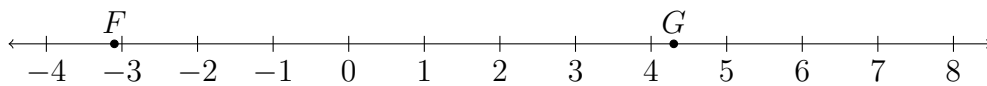


3. The volume of a cube is 27 cubic inches.

(a) Find the length of the side of the cube,  $s$ .

(b) Find the area of one face of the cube.

4. Given  $\overleftrightarrow{FG}$  as shown on the number line, with  $F = -3.1$  and  $G = 4.3$ .



The point  $H$  is the bisector of  $\overline{FG}$ . Find the value of  $H$ , and mark and label it on the numberline  $\overleftrightarrow{FG}$  above.

5. Given that  $m\angle 1 = 1x + 30$  and  $m\angle 4 = 6x + 10$  as shown in the diagram, find  $m\angle 2$ .

