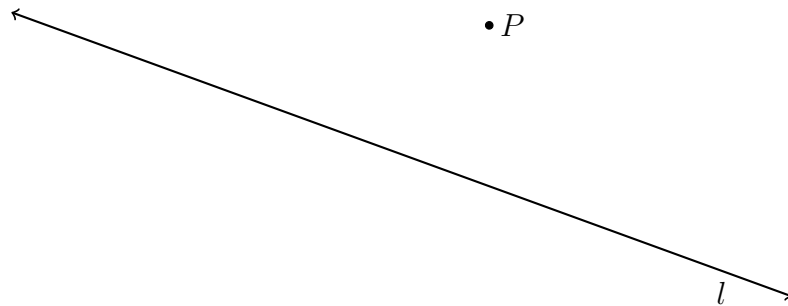


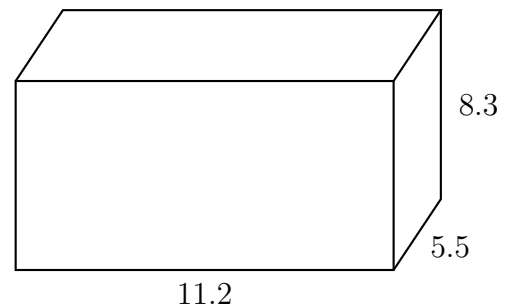
Name:

**3.3 Do Now: Area and volume**

1. Complete the construction of a line perpendicular to line  $l$  through the point  $P$ .

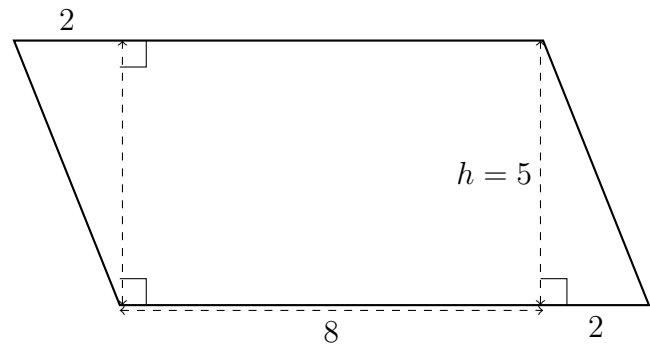


2. Find the volume of a box (rectangular prism) having a length of 11.2 centimeters, a depth of 5.5 cm, and a height of 8.3 cm. Show the calculation.



3. The shape shown below is a rectangle with two triangles. Its height is 5 cm. The rectangle is 8 cm long, and each triangle has a base of 2 cm.

Find the total area of the shape by adding the rectangular area to the two triangle parts.



4. As shown below, two lines intersect making four angles:  $\angle 1$ ,  $\angle 2$ ,  $\angle 3$ , and  $\angle 4$ . Given that  $m\angle 2 = 7x - 30$  and  $m\angle 3 = 3x + 10$ , find  $m\angle 1$ . (check your solution)

