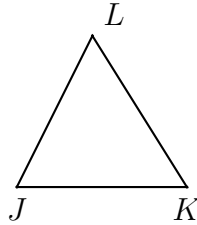


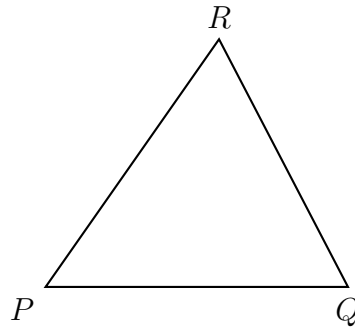
Name:

1.5 Classwork: Equilateral and isosceles triangles, perimeter

1. Given $\triangle JKL$ with $\overline{JK} \cong \overline{KL}$. On the diagram mark the congruent line segments with tick marks.



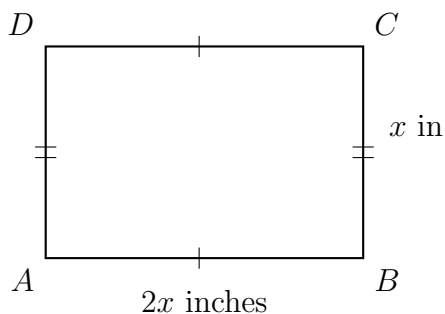
2. Measure and mark the sides of $\triangle PQR$ in centimeters. Is the triangle scalene, isosceles, or equilateral?



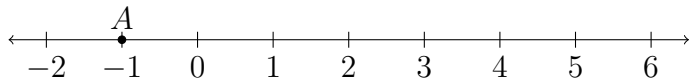
3. Each of the sides of an equilateral triangle are 8 centimeters long. What is its perimeter?

4. The perimeter of rectangle $ABCD$ is 30 inches and its length is twice its width. Fill in the blanks, solve for x , and find the rectangle's dimensions.

$$P = 2x + x + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = 30$$



5. Given point $A(-1)$ as shown below. Locate point, $B > 0$, on the number line such that $AB = 3\frac{1}{2}$.



- (a) Mark and label B .
- (b) State the value of B , writing an equation to support your work.
6. Given M is the midpoint of \overline{AB} , $AM = 5x + 11$, $MB = x + 21$.
- (a) Mark the diagram with the values and tick marks
- (b) Write an equation and solve for x
- (c) Check your result



7. The state of Colorado is rectangular in shape. In the north-south direction it runs 280 miles, and east to west 380 miles. Find its perimeter.



Source: Google Maps