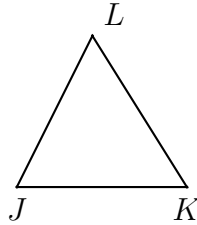


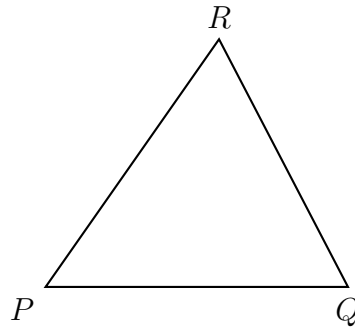
Name:

### 1.5 Classwork: Equilateral and isosceles triangles, perimeter

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

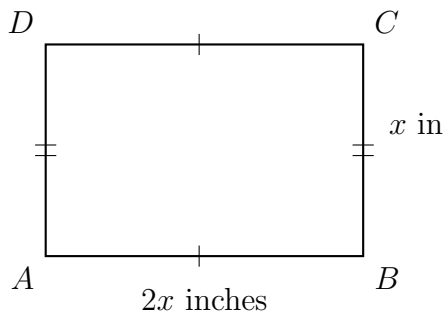


- Measure and mark the sides of  $\triangle PQR$  in centimeters. Is the triangle scalene, isosceles, or equilateral?

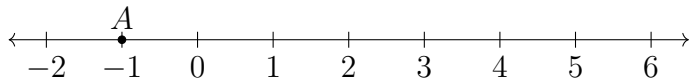


- Each of the sides of an equilateral triangle are 8 centimeters long. What is its perimeter?
- The perimeter of rectangle  $ABCD$  is 30 inches and its length is twice its width. Fill in the blanks, solve for  $x$ , and find the rectangle's dimensions.

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



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  $\overline{AB}$ ,  $AM = 6x + 11$ ,  $MB = x + 21$ .
- (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