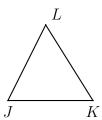
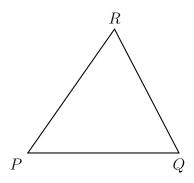
15 Sept 2022

## 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.



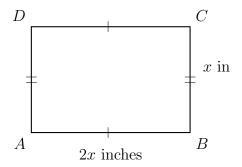
2. Measure and mark the sides of  $\triangle PQR$  in centimeters. Is the triangle scalene, isosceles, or equilateral?



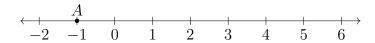
3. Each of the sides of an equilateral triangle are 8 centimeters long. What is its perimeter?

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.

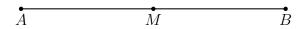
$$P = 2x + x + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = 30$$



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