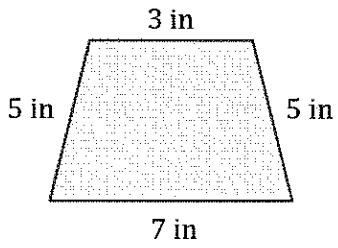
G3-M7-Lesson 13

1. Find the perimeter of the following shapes.

a.



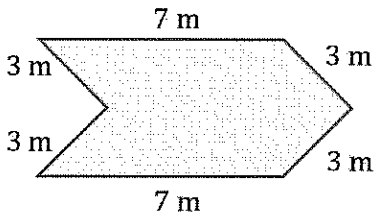
I see that the side lengths of each shape are already given, so I do not need to measure them. Now I just need to add the side lengths to find the perimeter.

$P = 3 \text{ in} + 5 \text{ in} + 5 \text{ in} + 7 \text{ in}$

$P = 20 \text{ in}$

This quadrilateral has 1 set of parallel lines and no right angles. It's a trapezoid.

b.



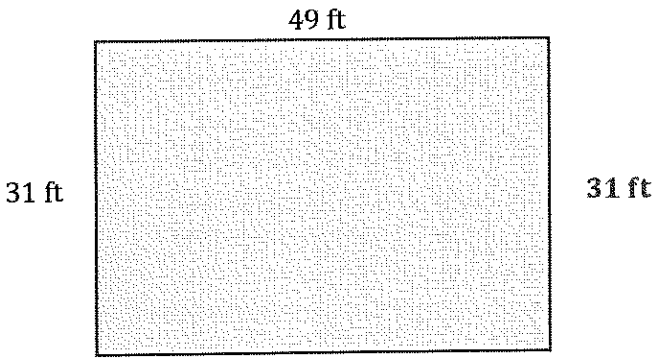
This shape has six sides, so it's a hexagon. It is not a regular hexagon because it does not have all equal sides.

$P = 3 \text{ m} + 3 \text{ m} + 7 \text{ m} + 3 \text{ m} + 7 \text{ m} + 3 \text{ m}$

$P = 26 \text{ m}$

I notice that each shape uses different units to measure. I need to make sure to label my measurements and their units correctly.

2. Allyson's rectangular garden is 31 feet long and 49 feet wide. What is the perimeter of Allyson's garden?



I know the lengths of the other two sides because opposite sides of a rectangle are equal.

$P = 31 \text{ ft} + 49 \text{ ft} + 31 \text{ ft} + 49 \text{ ft}$

$P = 160 \text{ ft}$

I can use mental math to solve. I think of this problem as $30 \text{ ft} + 50 \text{ ft} + 30 \text{ ft} + 50 \text{ ft}$ since 1 less than 31 is 30 and 1 more than 49 is 50. $50 \text{ ft} + 50 \text{ ft} = 100 \text{ ft}$. Then, I just need to add 60 ft more because $30 \text{ ft} + 30 \text{ ft} = 60 \text{ ft}$.

The perimeter of Allyson's garden is 160 feet.