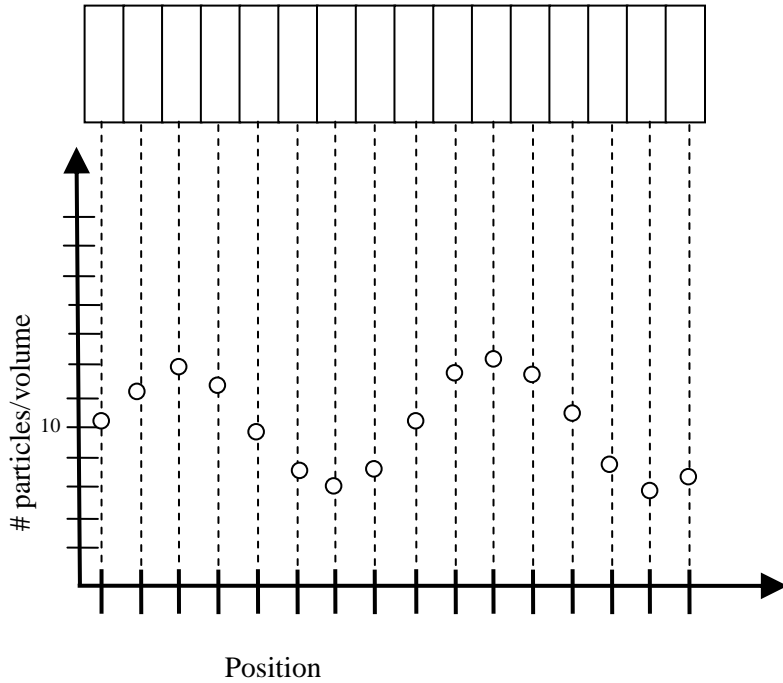


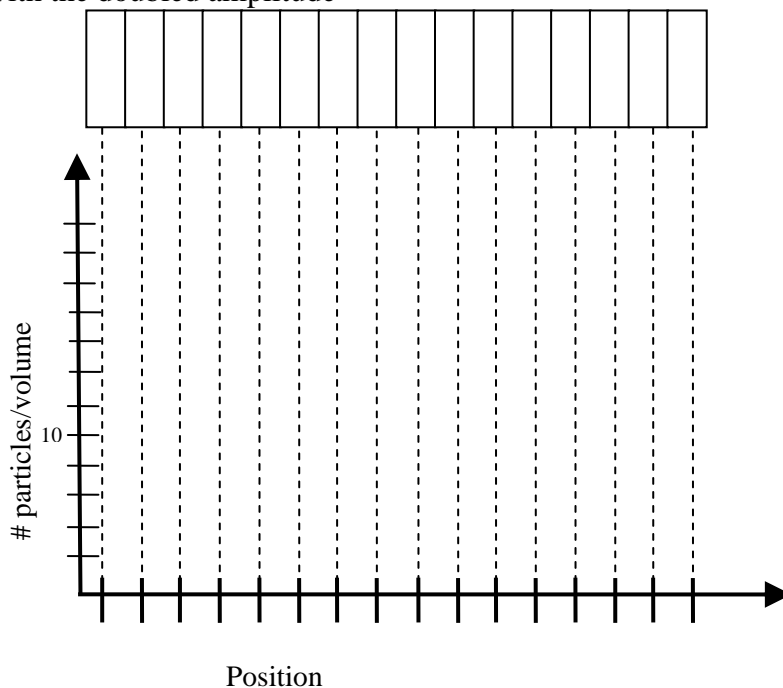
A longitudinal pressure wave representation is shown for a given instant in time. Place the correct number of particles in each region for the spatial representation.



Now suppose that you double the amplitude of this wave. How would that change the drawings?

In the spatial representation, would the volume of each region change? Explain.

On the grid on the following page, draw the “wave” representation and the spatial representation for this wave with the doubled amplitude



Does changing the amplitude affect the spatial extent – the size of the wave?