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## Unit 1 Extension Worksheet

1) A concert crew needs to set up some chairs on the floor level. The chairs are to be placed in a square pattern consisting of four square sections. If one of the square sections holds 900 chairs, how many chairs will there be along each length of the larger square? (Draw a picture to help!)
2) Show how to simplify $\sqrt{\frac{36}{9}}$ two different ways.
$3)$ Find the perimeter of the square.

3) Find the area of the square.

4) How many feet long would the side of a square have to be so that its perimeter and area are the same?
5) Create your own least-to-greatest problem. Your problem must satisfy the following characteristics:

- All of your values must be between 3 and 5 .
- None of your values can be equal to each other.
- You must use:
- One square root
- One terminating decimal
- One improper fraction
- One cube root
- One repeating decimal
- One mixed number
- Label each value with a letter, and give the correct order of the letters.
- Show all of the work that leads to the correct order. You may not use a calculator.

