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.

4) Find the area of the square.

Area = 121 in²



Perimeter = 60 cm

5) How many feet long would the side of a square have to be so that its perimeter and area are the **same**?

6) Create your own least-to-greatest problem. Your problem must satisfy the following characteristics:

• All of your values must be between 3 and 5.

• One cube root

- None of your values can be equal to each other.
- You must use:
 - One square root One terminating decimal

• One repeating decimal

- One improper fraction
 - \circ 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.