Problem Solving: Equal Groups Problems

Solve each problem involving equal groups.

1. The art gallery had 6 rooms. Each room had 8 paintings displayed on its walls. How many paintings were displayed in all?

2. Every booth in the balcony of the music hall was filled with 100 people. There were 10 booths in each row of the balcony. How many rows were there?

3. The play had a cast of 13 actors. There were 39 costumes used. If each actor had the same number of costume changes, how many costumes did each actor wear during the play?

4. The dance recital lasted 135 minutes without an intermission. Each separate group of dancers performed for 15 minutes. How many groups performed during the recital?

5. In the symphony orchestra there are 4 rows of string players and 4 musicians in each row. There are also 5 rows of brass and reed players with 3 musicians in each row. How many string, brass, and reed players are there in the orchestra?

6. Gena wants to display her collection of 30 antique puppets in equal-sized rows. What are all the combinations for displaying the puppet collection?