

Problem Set

1. Use Euclid's Algorithm to find the greatest common factor of the following pairs of numbers:
 - a. GCF (12,78)
 - b. GCF (18,176)

2. Juanita and Samuel are planning a pizza party. They order a rectangular sheet pizza which measures 21 inches by 36 inches. They tell the pizza maker not to cut it because they want to cut it themselves.
 - a. All pieces of pizza must be square with none left over. What is the length of the side of the largest square pieces into which Juanita and Samuel can cut the pizza?
 - b. How many pieces of this size will there be?

3. Shelly and Mickelle are making a quilt. They have a piece of fabric that measures 48 inches by 168 inches.
 - a. All pieces of fabric must be square with none left over. What is the length of the side of the largest square pieces into which Shelly and Mickelle can cut the fabric?
 - b. How many pieces of this size will there be?