

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 that 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 side length of the largest square pieces into which Juanita and Samuel can cut the pizza?
 - b. How many pieces of this size can be cut?
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 side length of the largest square pieces into which Shelly and Mickelle can cut the fabric?
 - b. How many pieces of this size can Shelly and Mickelle cut?