

Applying Prime Factorization, GCF and LCM Problems

GCF:

1. You are making 75 mint chocolate bars and 45 caramel pecan bars for some gift boxes. If each box will contain exactly the same bars, what is the greatest number of gift boxes you can put together? How many of each bar will be in a gift box?

GCF

2. A party store is making balloon bouquets for a Halloween party. Every bouquet will be identical. The store will use 24 orange, 36 black and 12 purple balloons altogether. What is the greatest number of balloon bouquets the store will put together? How many of each color balloon will be in a bouquet?

LCM:

3. A package of hotdogs contains 10 hot dogs. A package of bun contains 8 buns. What is the least number packages of buns and hot dogs you must purchase, so you won't have left over hot dogs?

LCM

4. You are making cookies for a party. You are not sure whether you will have 12 friends or 20 friends show up at the party, and you want each person to have the same number of cookies. What is the least number of cookies you must make in order to share equally with either 12 friends, or with 20 friends?