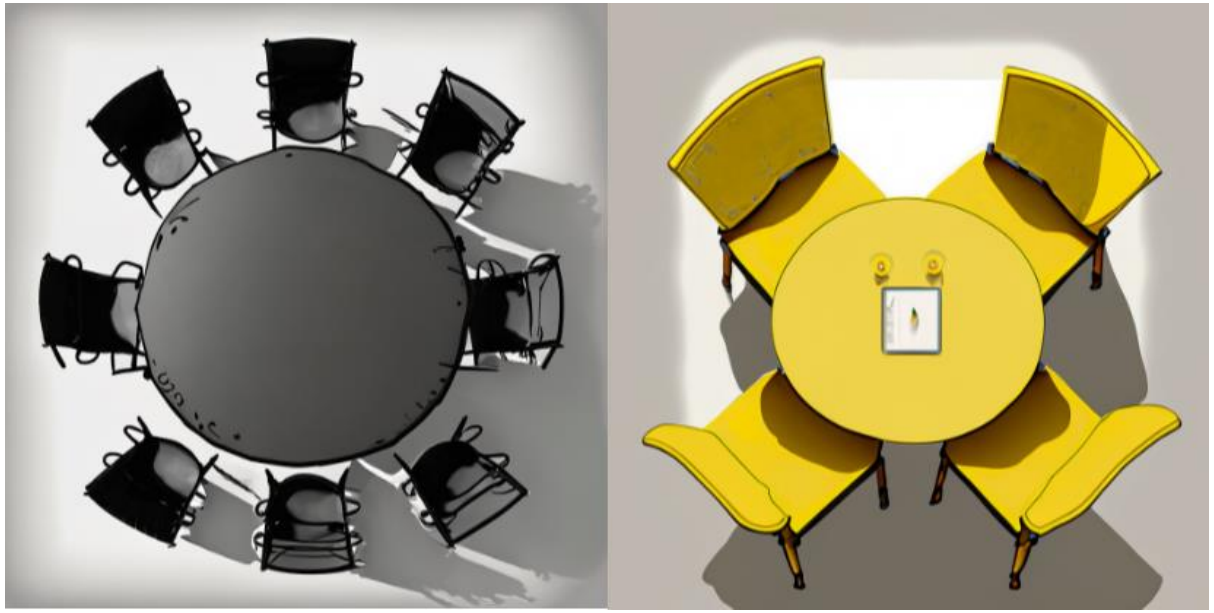
Example 1

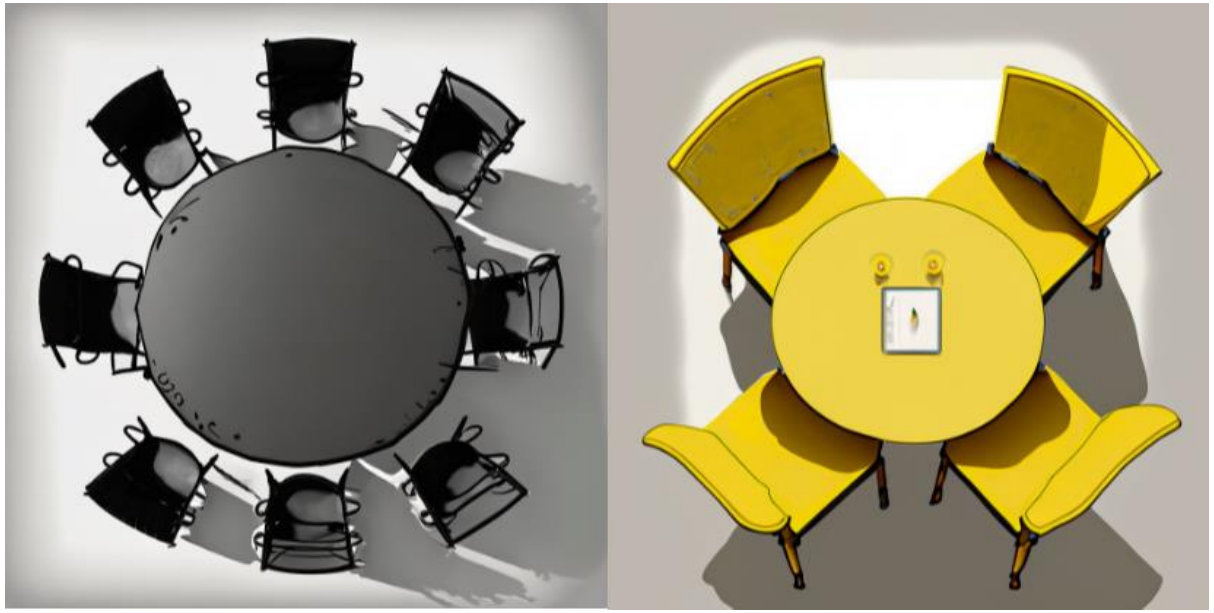


Question: If we want 3 tables with 20 chairs how many black and yellow dining sets do we need to use?

Answer: 2 black sets and 1 yellow set

Explanation: 1*X+1*Y=3 and 8*X+4*Y=20, where X is the black dining set and Y is the yellow dining set -> X=1 and Y=1

Example 2



Question: If a party was seated at a table that is black and they filled all but one chair at that table, and the party wanted to move to the yellow table, how many additional chairs would they need to accommodate the party so everyone has a seat at the yellow table?

Answer: 3

Explanation: There are 8 seats at the black table, subtracting 1 leaves 7 which is the number of persons, if they go to the table with 4 seats, they'll need an additional 3 seats to accommodate them.

Example 3

Question: Three hungry kids want to eat the fruits on the plate, how many apples and how many bananas will each one get?

Answer: 1 apple and 1 banana.

Explanation: 3 apple/3 kids = 1 apple per kid, 3 bananas/3 kids = 1 banana per kid.

Example 4

Question: Katy had $40 and bought 3 ice creams, 1 cake and 2 donuts. How much money does she have now?

Answer: 10

Explanation: 40-3*3-9-2*6 = 10