3. Zach's goal is to get the most bird-songs out of his limited resources. He has four limited resources: 396 sunflower seeds, 482 millet grains, 246 kernels of corn, and 593 crumbs of bread. He has designed two products for the birds: the Cheep dinner and the Squawky dinner. He predicts 2 lovely bird-songs for every Cheep dinner, and 3 loud bird-songs for every Squawky dinner. The resource usage and song production of each his products is listed in the following table:

	Seeds	Grains	Kernels	Crumbs	Songs
each Cheep dinner	4	6	2	8	2
each Squawky dinner	8	4	6	1	3
Available	396	482	246	593	10.

Zach's friend suggests that Zach feed the birds 51 Cheep dinners and 24 Squawky dinners. Describe the effects of such a business decision by filling in the form:

Number of Cheep dinners: Number of Squawky dinners:	51 24
Number of songs:	174
Leftover seeds:	0
Leftover grains:	80
Leftover kernels:	O
Leftover crumbs:	161

Give your own recommendation in the next form to increase the number of songs using only his limited resources #6 and #7 may be useful.

Number of Cheep dinners:	71
Number of Squawky dinners:	14 From
Number of songs:	184
Leftover seeds:	0
Leftover grains:	0
Leftover kernels:	20
Leftover crumbs:	

Leftoner Seedo:

396-71(4)-14(8)=396-284-112=0

Leftoner grains:

482-71(6)-14(4)=482-426-56=0

Leftoner kernelo:

246-71(2)-14(6)=246-142-84=20

Leftoner crumbs:

593-71(8)-14(1)=593-568-14=11