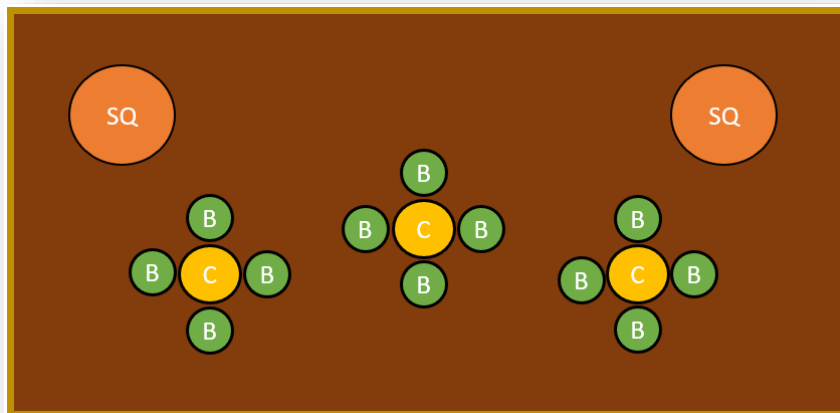


The Three Sisters—Secondary Numeracy Task

You have inherited this plot in a community garden, and it has been used to grow a Three Sisters Garden, as illustrated. The fee has been paid for this season, and plots rent for \$.40 per square foot.




In the next season, you want to expand the area of your plot by at least 50%. You will use the earnings from this season's harvest to offset the cost of rent and seeds for the coming season.



- ◇ Calculate the approximate area of the expanded garden plot.
- ◇ Draft the dimensions of the new, expanded plot to allow for the greatest additional number of each plant, guided by the recommended spacing details.
- ◇ Determine the number of additional plants of each type you can add in the expansion.
- ◇ Next season, how much will you spend on rent of the larger plot and the purchase of seeds, plus GST, in addition to using this season's earnings?

Spacing details:

- * Each squash seed requires a 3' by 3' area.
- * Beans must be 1' away from squash.
- * Corn must be 4" away from beans.

Three Sisters	Seed Cost			Harvest Yield per Plant	Market Sales Earnings	
	Single	Bulk			Volume	
	\$ 1.10	\$ 3.00	x3	2 ears	\$ 0.50	each
	\$ 0.50	\$ 5.00	x10	200 gr	\$ 3.86	per kg
	\$ 0.85			3 squash (avg 3 kg)	\$ 1.20	per kg