## Constructing a Nutritious Diet Plan for my Kittens

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In the initial period of rapid growth, kittens will put on weight steadily, gaining about 15 grams or $1 / 2$ oz. a day. This means that their nutritional needs are constantly increasing. However, to avoid food addiction of one kind of food, variety or combination needs to be included in their diet. For this example, I have chosen KMR (kitten milk replacer), Gerber baby food (beef flavor), and Science Diet kitten hard food as my combination for daily food. I want to find a combination of the three where the total consumption will meet the daily nutritional
requirements for my kitten's diet.

## Method:

A way to keep track of how much a kitten needs daily is to organize the components and the types of food into a rectangular array, a matrix. By using this linear algebra essential, we can "easily" compute the amount of each nutrition component that is needed daily for the fast-growing kitten. First, let's introduce our kittens that we will be observing for this diet plan.

