

Cereal	Manufacturer	Type	Calories	Protein	Fat
Apple Cinnamon Cheerios	G	C	110	2	2
Basic 4	G	C	130	3	2
Cheerios	G	C	110	6	2
Cinnamon Toast Crunch	G	C	120	1	3
Clusters	G	C	110	3	2
Cocoa Puffs	G	C	110	1	1
Count Chocula	G	C	110	1	1
Crispy Wheat & Raisins	G	C	100	2	1
Golden Grahams	G	C	110	1	1
Honey Nut Cheerios	G	C	110	3	1
Kix	G	C	110	2	1
Lucky Charms	G	C	110	2	1
Multi-Grain Cheerios	G	C	100	2	1
Oatmeal Raisin Crisp	G	C	130	3	2
Raisin Nut Bran	G	C	100	3	2
Total Corn Flakes	G	C	110	2	1
Total Raisin Bran	G	C	140	3	1
Total Whole Grain	G	C	100	3	1
Triples	G	C	110	2	1
Trix	G	C	110	1	1
Wheaties	G	C	100	3	1
Wheaties Honey Gold	G	C	110	2	1
All-Bran	K	C	70	4	1
All-Bran with Extra Fiber	K	C	50	4	0
Apple Jacks	K	C	110	2	0
Corn Flakes	K	C	100	2	0
Corn Pops	K	C	110	1	0
Cracklin' Oat Bran	K	C	110	3	3
Crispix	K	C	110	2	0
Froot Loops	K	C	110	2	1
Frosted Flakes	K	C	110	1	0
Frosted Mini-Wheats	K	C	100	3	0
Fruitful Bran	K	C	120	3	0
Just Right Crunchy Nuggets	K	C	110	2	1
Just Right Fruit & Nut	K	C	140	3	1
Mueslix Crispy Blend	K	C	160	3	2
Nut&Honey Crunch	K	C	120	2	1
Nutri-Grain Almond-Raisin	K	C	140	3	2
Nutri-grain Wheat	K	C	90	3	0
Product 19	K	C	100	3	0
Raisin Bran	K	C	120	3	1
Raisin Squares	K	C	90	2	0
Rice Krispies	K	C	110	2	0
Smacks	K	C	110	2	1
Special K	K	C	110	6	0
100% Bran	N	C	70	4	1
Shredded Wheat	N	C	80	2	0
Shredded Wheat 'n'Bran	N	C	90	3	0
Shredded Wheat spoon size	N	C	90	3	0
Strawberry Fruit Wheats	N	C	90	2	0
Bran Flakes	P	C	90	3	0

Fruit & Fibre Dates, Walnuts, and Oat	P	C	120	3	2
Fruity Pebbles	P	C	110	1	1
Golden Crisp	P	C	100	2	0
Grape Nuts Flakes	P	C	100	3	1
Grape-Nuts	P	C	110	3	0
Great Grains Pecan	P	C	120	3	3
Honey-comb	P	C	110	1	0
Post Nat. Raisin Bran	P	C	120	3	1
100% Natural Bran	Q	C	120	3	5
Cap'n'Crunch	Q	C	120	1	2
Honey Graham Ohs	Q	C	120	1	2
Life	Q	C	100	4	2
Puffed Rice	Q	C	50	1	0
Puffed Wheat	Q	C	50	2	0
Quaker Oat Squares	Q	C	100	4	1
Almond Delight	R	C	110	2	2
Bran Chex	R	C	90	2	1
Corn Chex	R	C	110	2	0
Double Chex	R	C	100	2	0
Muesli Raisins, Dates, & Almonds	R	C	150	4	3
Muesli Raisins, Peaches, & Pecans	R	C	150	4	3
Rice Chex	R	C	110	1	0
Wheat Chex	R	C	100	3	1
Maypo	A	H	100	4	1
Cream of Wheat (Quick)	N	H	100	3	0
Quaker Oatmeal	Q	H	100	5	2

Sodium	Fiber	Carbohydrates	Sugars	Shelf	Potassium	Vitamins
180	1.5	10.5	10	1	70	25
210	2	18	8	3	100	25
290	2	17	1	1	105	25
210	0	13	9	2	45	25
140	2	13	7	3	105	25
180	0	12	13	2	55	25
180	0	12	13	2	65	25
140	2	11	10	3	120	25
280	0	15	9	2	45	25
250	1.5	11.5	10	1	90	25
260	0	21	3	2	40	25
180	0	12	12	2	55	25
220	2	15	6	1	90	25
170	1.5	13.5	10	3	120	25
140	2.5	10.5	8	3	140	25
200	0	21	3	3	35	100
190	4	15	14	3	230	100
200	3	16	3	3	110	100
250	0	21	3	3	60	25
140	0	13	12	2	25	25
200	3	17	3	1	110	25
200	1	16	8	1	60	25
260	9	7	5	3	320	25
140	14	8	0	3	330	25
125	1	11	14	2	30	25
290	1	21	2	1	35	25
90	1	13	12	2	20	25
140	4	10	7	3	160	25
220	1	21	3	3	30	25
125	1	11	13	2	30	25
200	1	14	11	1	25	25
0	3	14	7	2	100	25
240	5	14	12	3	190	25
170	1	17	6	3	60	100
170	2	20	9	3	95	100
150	3	17	13	3	160	25
190	0	15	9	2	40	25
220	3	21	7	3	130	25
170	3	18	2	3	90	25
320	1	20	3	3	45	100
210	5	14	12	2	240	25
0	2	15	6	3	110	25
290	0	22	3	1	35	25
70	1	9	15	2	40	25
230	1	16	3	1	55	25
130	10	5	6	3	280	25
0	3	16	0	1	95	0
0	4	19	0	1	140	0
0	3	20	0	1	120	0
15	3	15	5	2	90	25
210	5	13	5	3	190	25

160	5	12	10	3	200	25
135	0	13	12	2	25	25
45	0	11	15	1	40	25
140	3	15	5	3	85	25
170	3	17	3	3	90	25
75	3	13	4	3	100	25
180	0	14	11	1	35	25
200	6	11	14	3	260	25
15	2	8	8	3	135	0
220	0	12	12	2	35	25
220	1	12	11	2	45	25
150	2	12	6	2	95	25
0	0	13	0	3	15	0
0	1	10	0	3	50	0
135	2	14	6	3	110	25
200	1	14	8	3	-1	25
200	4	15	6	1	125	25
280	0	22	3	1	25	25
190	1	18	5	3	80	25
95	3	16	11	3	170	25
150	3	16	11	3	170	25
240	0	23	2	1	30	25
230	3	17	3	1	115	25
0	0	16	3	2	95	25
80	1	21	0	2	-1	0
0	2.7	-1	-1	1	110	0

Weight	Cups
1	0.75
1.33	0.75
1	1.25
1	0.75
1	0.5
1	1
1	1
1	0.75
1	0.75
1	0.75
1	1.5
1	1
1	1
1.25	0.5
1	0.5
1	1
1.5	1
1	1
1	0.75
1	1
1	1
1	0.75
1	0.33
1	0.5
1	1
1	1
1	1
1	0.5
1	1
1	1
1	0.75
1	0.8
1.33	0.67
1	-1
1.3	0.75
1.5	0.67
1	0.67
1.33	0.67
1	-1
1	1
1.33	0.75
1	0.5
1	1
1	0.75
1	1
1	0.33
0.83	-1
1	0.67
1	0.67
1	-1
1	0.67

Manufacturer Cereal Count

Q	8
P	9
G	22
K	23
R	9
N	5
A	1
Total	77

Calories

Max Calories	160
Min Calories	50

Protein

Max Protein	6
Min Protein	1

Fat

Max Fat	5
Min Fat	0

Sodium

Max	320
Min	0

Fiber

Max	14
Min	0

Repeat for the remaining columns

Carbohydrates

Max	23
Min	-1

Sugars

Max	15
Min	-1

Shelf

Max	3
Min	1

Potassium

Max	320
Min	-1

Vitamins

Max	100
Min	0

Weight

Max	1.5
Min	-1

Cups

Max	1.5
Min	-1

Data Insights

- 1) Cereals with a high shelf life also tend to be high in vitamins
- 2) Manufacturer G tends to make cereal that is higher in sodium than other manufacturers
- 3) Oatmeal's nutrition facts seem to have a lot more negatives than any other cereal
- 4) Manufacturer K consistently produces cereals with the least fat
- 5) Most cereals that have a shelf life of 3 are relatively more well known cereals

Data Analysis Process

1.25	0.67
1	0.75
1	0.88
1	0.88
1	0.25
1	0.33
1	1.33
1.33	0.67
1	-1
1	0.75
1	1
1	0.67
0.5	1
0.5	-1
1	0.5
1	0.75
1	0.67
1	1
1	0.75
-1	-1
-1	-1
1	1.13
1	0.67
1	-1
1	1
1	0.67

In order to analyze this data, I imported it into an excel file and used excel's analysis tool to quickly see which values were higher and lower than others in their respective categories

Challenges/Problems

Rather than any challenges or problems, I found a couple of things that made this assignment more difficult than expected. First, the naming convention is not very specific. What exactly do 'cups' and 'shelf' refer to? If it's cups in a serving, or shelf life, perhaps including that in the header would be helpful

Second, some values had negative numbers in it. What exactly do these mean? How is it possible to have negative cups and a negative weight?

