

How are Calories and Sugars related in breakfast cereals?

name	calories	sugars
100% Bran	70	6
100% Natural Bran	120	8
All-Bran	70	5
All-Bran with Extra Fiber	50	0
Almond Delight	110	8
Apple Cinnamon Cheerios	110	10
Apple Jacks	110	14
Basic 4	130	8
Bran Chex	90	6
Bran Flakes	90	5
Cap'n'Crunch	120	12
Cheerios	110	1
Cinnamon Toast Crunch	120	9
Clusters	110	7
Cocoa Puffs	110	13
Corn Chex	110	3
Corn Flakes	100	2
Corn Pops	110	12
Count Chocula	110	13
Cracklin' Oat Bran	110	7
Cream of Wheat (Quick)	100	0
Crispix	110	3
Crispy Wheat & Raisins	100	10
Double Chex	100	5
Froot Loops	110	13
Frosted Flakes	110	11
Frosted Mini-Wheats	100	7
Fruit & Fibre Dates, Walnuts, and Oats	120	10
Fruitful Bran	120	12
Fruity Pebbles	110	12
Golden Crisp	100	15
Golden Grahams	110	9
Grape Nuts Flakes	100	5
Grape-Nuts	110	3
Great Grains Pecan	120	4
Honey Graham Ohs	120	11
Honey Nut Cheerios	110	10
Honey-comb	110	11
Just Right Crunchy Nuggets	110	6
Just Right Fruit & Nut	140	9
Kix	110	3
Life	100	6
Lucky Charms	110	12
Maypo	100	3
Muesli Raisins, Dates, & Almonds	150	11
Muesli Raisins, Peaches, & Pecans	150	11
Mueslix Crispy Blend	160	13
Multi-Grain Cheerios	100	6
Nut&Honey Crunch	120	9
Nutri-Grain Almond-Raisin	140	7

Nutri-grain Wheat	90	2
Oatmeal Raisin Crisp	130	10
Post Nat. Raisin Bran	120	14
Product_19	100	3
Puffed Rice	50	0
Puffed Wheat	50	0
Quaker Oat Squares	100	6
Quaker Oatmeal	100	0
Raisin Bran	120	12
Raisin Nut Bran	100	8
Raisin Squares	90	6
Rice Chex	110	2
Rice Krispies	110	3
Shredded Wheat	80	0
Shredded Wheat 'n'Bran	90	0
Shredded Wheat spoon_size	90	0
Smacks	110	15
Special K	110	3
Strawberry Fruit Wheats	90	5
Total Corn Flakes	110	3
Total Raisin Bran	140	14
Total Whole Grain	100	3
Triples	110	3
Trix	110	12
Wheat Chex	100	3
Wheaties	100	3
Wheaties Honey Gold	110	8

1. Draw a scatterplot. Decide about linearity and outliers and/or influential observations.
2. Calculate all the statistics and the regression line. (Show work for a and b)
3. Determine r^2
4. Describe what the model says in words and numbers. Be sure to use the names of the variables and their units.
5. Draw a residual plot and interpret it.