

Statistics Worksheet

Standard Deviation

Standard Deviation Worksheet

You are interested in the different amount of calories that may be in different brands of cheese pizza.

Brand	Calories per slice	Brand	Calories per slice
1	500	6	758
2	321	7	652
3	456	8	568
4	412	9	496
5	298	10	378

1. Calculate the mean for the ten pizza brands.

STEP 1 Calculate the mean = $4839/10 = 484$

2. Calculate the standard deviation for the ten brands of pizza in this table.

STEP 2 Subtract each reading from the mean value, square each result, and add up the results.

Ex. $(484-500)^2 + (484-321)^2 + \dots$

$$= 16^2 + 163^2 + 28^2 + 72^2 + 186^2 + 274^2 + 168^2 + 84^2 + 12^2 + 106^2$$

$$= 256 + 26569 + 784 + 5184 + 34596 + 75076 + 28224 + 7056 + 144 + 11236 = 189,125$$

STEP 3 Divide the result from Step 2 by (n-1) (one less than the number of data points) (9 in this case).

$$189125/9 = 21014$$

STEP 4 Take the square root of result in Step 3, determining standard deviation.

$$SD = \sqrt{21014} = 145$$

What is the range of pizza calorie values to \pm ONE SD? $484 - 145$ & $484 + 145$ = 339-629 calories

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