



What is the relationship between the amount of time spent trick-or-treating and the amount of candy a person gets? Here are data from students from last year.



3. Describe the relationship.

4. Find the equation of the LSRL. (STAT / CALC / 8:LinReg(a+bx))

5. Find and interpret the residual for the student who spent 23 minutes trick-or-treating.

Time (minutes)	Candy (grams)	Time (minutes)	Candy (grams)
4.8	220.11	24.03	699.88
7.27	282.06	18.47	560.91
10.91	373.21	12.91	422.06
16.15	504.31	9.06	325.95
19.79	595.27	6.92	272.63
21.65	641.90	5.2	229.80
22.02	651.32	15.87	496.96
24.06	702.37	17.09	527.35
26.35	759.61	36.95	1023.85
27.22	781.22	34.67	966.85
31.33	883.72	19.27	581.44
35.58	990.06	20.64	615.53
40.19	1105.24	28.27	807.31
43.66	1191.81	14.37	459.35
46.5	1262.54	23	674.44
46.5	1262.34	25.87	746.17
45.1	1227.10	35.58	989.71
42.5	1161.92	29.37	833.69
40	1099.32	31.72	892.55
37.5	1036.76	33.37	933.95
34.22	954.70	29.37	833.88
29.8	844.12	25.93	747.85
		22.8	669.64

6. Create a residual plot. (2nd / Y = / Xlist: L₁, Ylist: RESID / Zoom / 9: ZoomStat)



7. Is a linear model appropriate for this data? Use your residual plot to justify.

