Regression equation

	High temp. in °C x	Iced tea orders y	$x-\bar{x}$	$y-\bar{y}$	$(x-\bar{x})^2$	$(y-\bar{y})^2$	$(x-\bar{x})(y-\bar{y})$
22nd (Mon.)	29	77	-0.4	2	0.16	4	-0.8
23rd (Tues.)	28	62	-1.4	-13	1.96	169	18.2
24th (Wed.)	34	93	4.6	18	21.16	324	82.8
25th (Thurs.)	31	84	1.6	9	2.56	81	14.4
26th (Fri.)	25	59	-4.4	-16	19.36	256	70.4
sum	147	375			45.2	834	185
Average	29.4	75			S_{xx}	S_{yy}	S_{xy}
	$\bar{x}$	$\bar{y}$					

$$\bar{x} = \frac{\sum x}{n} = \frac{147}{5} = 29.4$$

$$\bar{y} = \frac{\sum y}{n} = \frac{375}{5} = 75$$

} หาค่าเฉลี่ยของ x กับ y

$$a = \frac{S_{xy}}{S_{xx}} = \frac{185}{45.2} = 4.09292$$ a คือ ความชันของเส้น (Slope)

$$b = \bar{y} - \bar{x}a = 75 - (29.4)(4.09292)$$ b คือ ค่าตัดแกน y (Intercept)

$$= -45.33$$

Regression equation is $y = 4.09x - 45.33$