1. Years and contribution

|  |  |
| --- | --- |
| Years  (x) | Contribution  (y) |
| 1 | $500 |
| 5 | $100 |
| 3 | $300 |
| 10 | $50 |
| 7 | $75 |
| 6 | $80 |

1. Find the equation of the line of best fit.
2. Compute the contribution when the number of years is 4.
3. Estimate the number of years when the contribution is $400.
4. Rents for one-bedroom and two-bedroom apartments.

|  |  |
| --- | --- |
| One-bedroom  (x) | Two-bedroom  (y) |
| $782 | $1223 |
| $486 | $902 |
| $451 | $739 |
| $529 | $954 |
| $618 | $1055 |
| $520 | $875 |
| $845 | $1455 |

1. Find the equation of the line of best fit.
2. Determine the rent of a two-bedroom apartment when the rent of a one-bedroom is $700.
3. Estimate the rent of a one-bedroom apartment when the rent of a two-bedroom is $1300.
4. Wins and strikeouts for Hall of fame pitchers.

|  |  |
| --- | --- |
| Wins  (x) | Strikeouts  (y) |
| 329 | 4136 |
| 150 | 1155 |
| 236 | 1956 |
| 300 | 2266 |
| 284 | 3192 |
| 207 | 1277 |
| 247 | 1068 |
| 314 | 3534 |
| 273 | 1987 |
| 324 | 3574 |

1. Find the equation of the line of best fit.
2. Compute the number of strikeouts when the number of wins is 260.
3. Estimate the number of wins when the number of strikeouts is 3874.
4. Temperature (in 0F) and precipitation (in inches)

|  |  |
| --- | --- |
| Avg. daily temp.  (x) | Precipitation  (y) |
| 86 | 3.4 |
| 81 | 1.8 |
| 83 | 3.5 |
| 89 | 3.6 |
| 80 | 3.7 |
| 74 | 1.5 |
| 64 | 0.2 |

1. Find the equation of the line of best fit.
2. Find the amount of precipitation when the temperature is 800.
3. Estimate the temperature when the precipitation is 4.2 inches.

1. Calories and cholesterol.

|  |  |
| --- | --- |
| Calories  (x) | Cholesterol  (y) |
| 390 | 43 |
| 535 | 45 |
| 720 | 80 |
| 300 | 50 |
| 430 | 55 |
| 500 | 52 |
| 440 | 60 |

1. Find the equation of the line of best fit.
2. Compute the amount of cholesterol when the calorie is 600.
3. Estimate the number of calories when the amount of cholesterol is 90.
4. Grant and Indebtedness

|  |  |
| --- | --- |
| Median grant  (x) | Avg. indebt  (y) |
| $1,500 | $39,759 |
| $5,500 | $46,790 |
| $1,040 | $44,650 |
| $3,508 | $40,000 |
| $3,823 | $51,249 |
| $6,000 | $46,500 |
| $1,400 | $42,332 |
| $7,000 | $60,000 |

1. Find the equation of the line of best fit.
2. Compute the average indebt when the grant is $7,500.
3. Estimate the amount of grant when the average indebt is $80,000.