1. Number of ads and sales.

|  |  |
| --- | --- |
| No. of Ads(x) | Sales in dollars(y) |
| 2 | $2000 |
| 5 | $4000 |
| 8 | $7000 |
| 8 | $6000 |
| 10 | $9000 |
| 12 | $10000 |

1. Find the equation of the line of best fit.
2. Compute the amount of sales when the number of ads is 7.
3. Estimate the number of ads made if the sales is $15,000.
4. Ages and exercises

|  |  |
| --- | --- |
| Age(x) | Hours(y) |
| 18 | 10 |
| 26 | 5 |
| 32 | 2 |
| 38 | 3 |
| 52 | 1.5 |
| 59 | 1 |

1. Find the equation of the line of best fit.
2. Find the number of hours spent by a 35-year old.
3. Estimate the age of the person who exercises 8 hours.
4. Income and meals.

|  |  |
| --- | --- |
| Income in dollars(x)  | Meals(y) |
| $500 | 8 |
| $1200 | 12 |
| $1500 | 16 |
| $945 | 10 |
| $850 | 9 |
| $400 | 3 |
| $540 | 7 |

1. Find the equation of the line of best fit.
2. Compute the number of times a person eats outside when his/her income is $1100.
3. Estimate the income of a person who eats 18 times outside.
4. Temperature and number of emergency calls.

|  |  |
| --- | --- |
| Temperature(x) | No. of Calls(y) |
| 68 | 7 |
| 74 | 4 |
| 82 | 8 |
| 88 | 10 |
| 93 | 11 |
| 99 | 9 |
| 101 | 13 |

1. Find the equation of the line of best fit.
2. Determine the number of call when the temperature is 800.
3. Estimate the temperature when the number of call is 15.

1. Number of people under 5 years old and people 65 and over living in 6 randomly selected cities in the United States.

|  |  |
| --- | --- |
| Under 5 years old(x)  | 65 and older(y) |
| 178,000 | 361,000 |
| 27,000 | 72,000 |
| 878,000 | 1,496,000 |
| 314,000 | 501,000 |
| 322,000 | 585,000 |
| 143,000 | 207,000 |

1. Find the equation of the line of best fit.
2. Compute the number of people 65 years and older when the number of children under 5 years old is 200,000.
3. Estimate the number of children under 5 years old when the number of people 65 years old and older is 1,000,000.