Name:

Algebra

Section 8.6

**State the domain and range of the function shown by each table**

**Give each correspondence as a set of ordered pairs**

**Then draw a bar graph for each function**

1.

|  |  |
| --- | --- |
| Activity | Calories burned |
| Jogging | 210 |
| Swimming | 270 |
| Tennis | 210 |
| Walking | 120 |
| Bicycling | 330 |

2.

|  |  |
| --- | --- |
| Species | Chromosomes |
| Human | 46 |
| Horse | 64 |
| Mouse | 40 |
| Tomato | 24 |
| Corn | 40 |

3.

|  |  |
| --- | --- |
| Tuesday Night Television | Nielsen Rating |
| Situation Comedy | 10.8 |
| Basketball game | 6.2 |
| Drama | 12.0 |
| News | 16.3 |
| Documentary | 14.2 |
| Hockey game | 4.1 |
| Movie | 6.9 |

4.

|  |  |
| --- | --- |
| Appliance | Percent of total electrical energy used in the house |
| Air conditioner | 8 |
| Clothes dryer | 5 |
| Electric Range | 15 |
| Refrigerator | 20 |
| TV | 9 |
| Water header | 38 |
| All others | 5 |

**State the domain and range of the function shown by each table**

**Give each correspondence as a set of ordered pairs**

**Then draw a broken-line graph for each function**

5. **Cost of seeing a movie at the Bijou Theater**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Year | 1940 | 1950 | 1960 | 1970 | 1980 | 1990 |
| Cost | $.30 | $.60 | $1.25 | $2.00 | $3.25 | $5.00 |

6. **Consumer Price Index (CPI)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Year | 1967 | 1970 | 1973 | 1976 | 1979 | 1982 | 1985 |
| CPI | 100 | 116.3 | 133.1 | 170.5 | 217.4 | 289.1 | 317.4 |

7. **Use the broken-line graph you drew in #5 to estimate the cost of seeing a movie in 1955 and in 1975.**

8. **Use the broken-line graph you drew in #6 to estimate the CPI in 1980 and in 1984.**