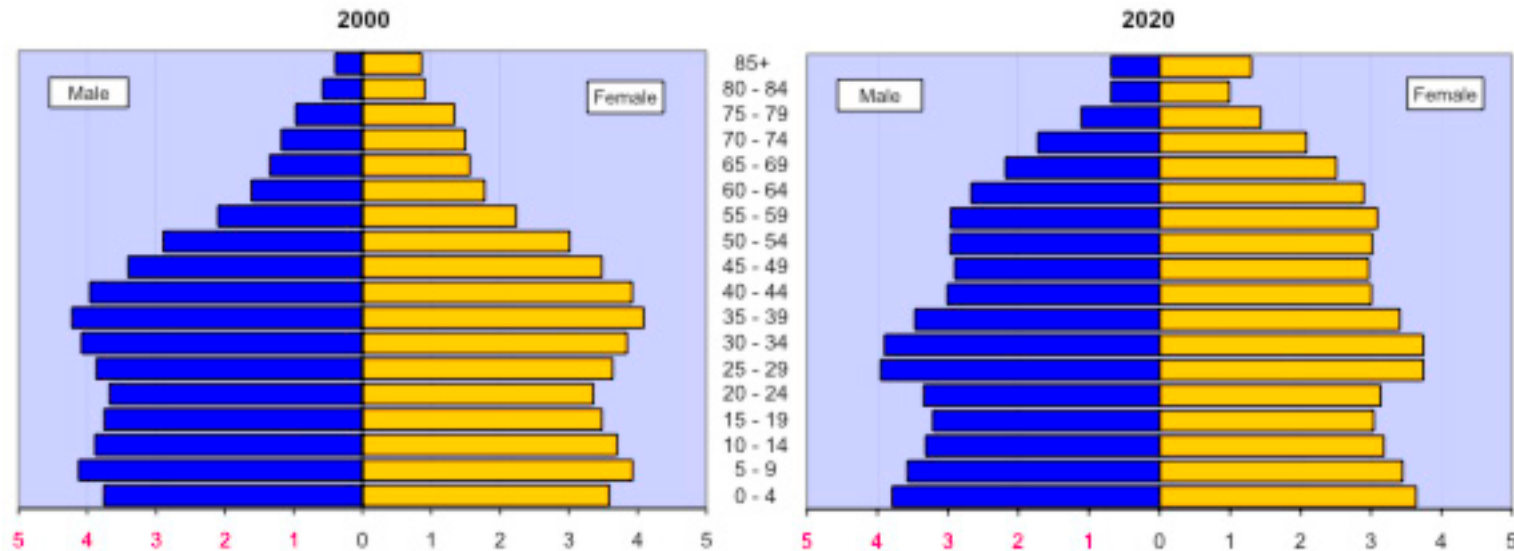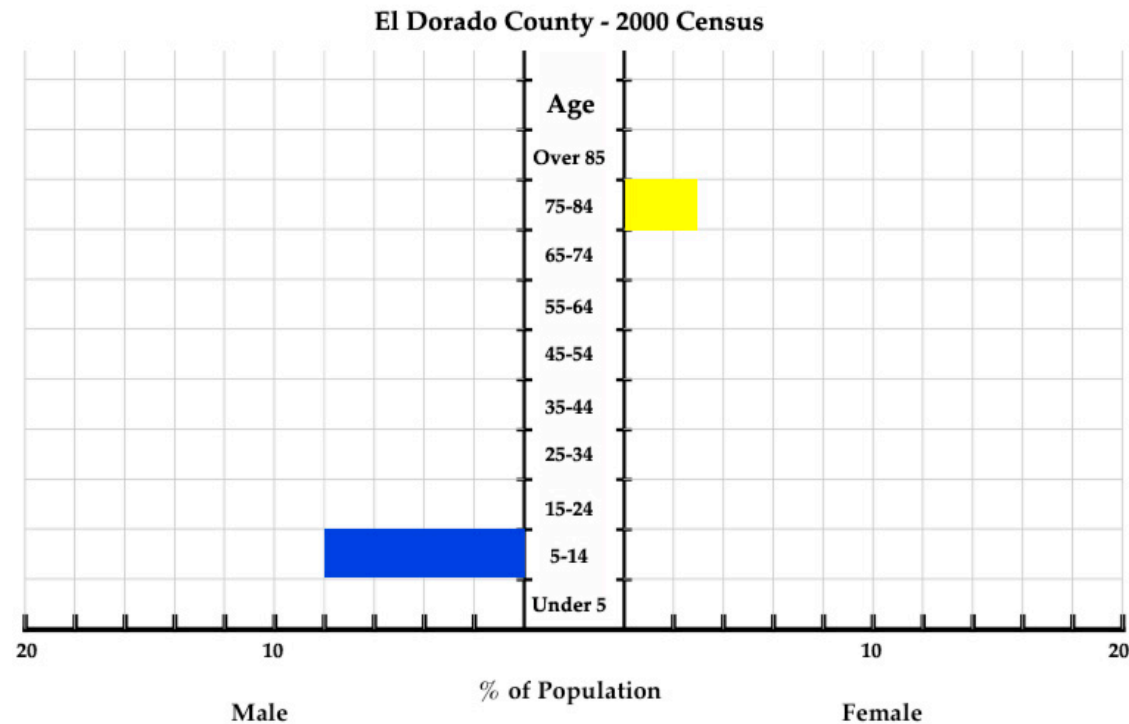Name(s): _____

Date: _____

## *Population Pyramids*

Population pyramids are a relatively new type of information display. As you can see in the pair of examples below they provide a convenient way of presenting a snapshot of a region's demographics - in this case gender differences by age in 5-year intervals for the California 2000 population and for the projected 2020 population.



1. What percentage of the state's 2000 population are 10-14 year old boys? What percentage is projected in 2020?

2. Compare the combined bars for male and female 15-19 year olds in 2000 and 2020. What is suggested about the need for high schools in California in the third decade of the century?

3. Compare the two graphs for ages 60 and above and describe the similarities and differences you see. What implications for health services are suggested by the comparison?
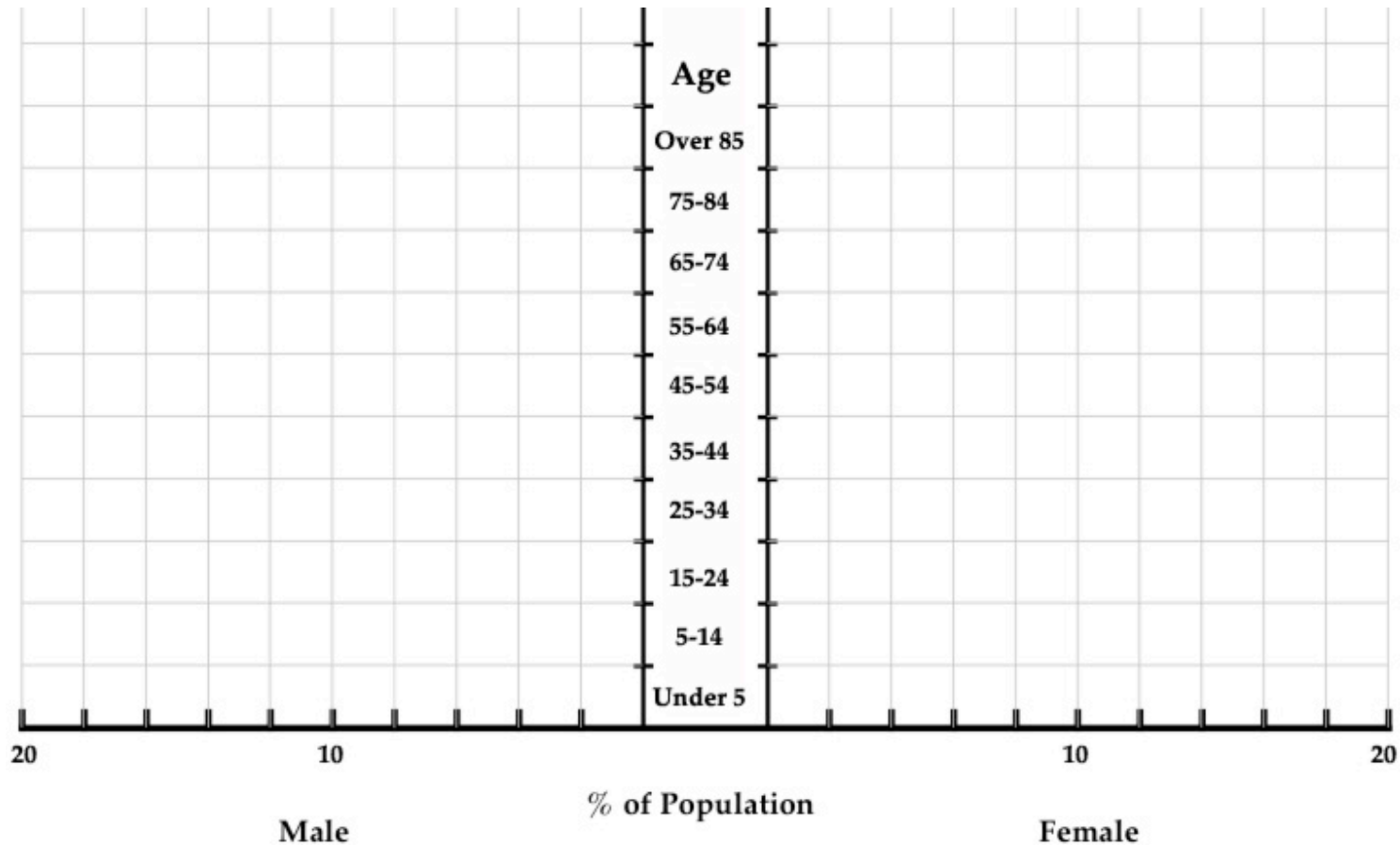
4. Building a population pyramid is easy.  As an example you will create one for El Dorado County.  Data is provided in the table on the next page.  The data includes the county as a whole and the census tracts indicated in the map on page 4.  These are most of the areas of greatest population in the county.

- Review the data in the entire table and find the highest percentage of males or females.  You can see that 45 to 54 year old males make up 13.9% of the population of tract 301.01.  You can use this value to help set the scale on the graph - in this case each unit on the graph counts 2.  We will use this scale for the county as a whole and for each tract allowing easy comparison.

- Construct bars for each group.  5-14 year old males make-up 8.0% of the population and 2.4% of the population is 75 to 84 year old females.  These two values are graphed for you as an example.  Complete the graph.

### El Dorado County - 2000 Census

| Age |
|---|
| Over 85 |
| 75-84 |
| 65-74 |
| 55-64 |
| 45-54 |
| 35-44 |
| 25-34 |
| 15-24 |
| 5-14 |
| Under 5 |

20    10                    10    20

% of Population

Male                                Female

- Compare your graph with that for California in 2000.  Discuss similarities and differences.

5. Divide up the census tracts in the table amongst your class. Prepare a population pyramid for your tract.

| | Age | |
|---|---|---|
| | Over 85 | |
| | 75-84 | |
| | 65-74 | |
| | 55-64 | |
| | 45-54 | |
| | 35-44 | |
| | 25-34 | |
| | 15-24 | |
| | 5-14 | |
| | Under 5 | |

20          10                                    10          20

% of Population

Male                                                    Female

When completed, post your graph around the room along with those of your classmates. Group the graphs for each tract together so that you can check your work. Correct any mistakes you may have made and study all the graphs.

Suppose that you and your classmates are responsible for planning county services. Use the graphs and explain where in the county you might want to explore the need for various services (for example - children's playgrounds, high schools, senior health care facilities, etc.)

# El Dorado County - Select Census Tract Data - 2000

| Census Tract | 301.01 | | 301.02 | | 302 | | 303 | | 304.01 | | 307.01 | | 307.02 | | 307.03 | | 308.03 | | 308.05 | | El Dorado County | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Population | 266 | | 4,105 | | 5,072 | | 5,805 | | 4,260 | | 5,442 | | 5,766 | | 7,059 | | 5,795 | | 9,173 | | 156,299 | |
| Male | 150 | 56.4% | 2,224 | 54.2% | 2,611 | 51.5% | 2,992 | 51.5% | 2,169 | 50.9% | 2,727 | 50.1% | 2,861 | 49.6% | 3,522 | 49.9% | 2,806 | 48.4% | 4,543 | 49.5% | 77,963 | 49.9% |
| Under 5 | 8 | 3.0% | 184 | 4.5% | 195 | 3.8% | 200 | 3.5% | 112 | 2.6% | 192 | 3.5% | 189 | 3.3% | 301 | 4.3% | 166 | 2.9% | 393 | 4.3% | 4,688 | 3.0% |
| 5 to 14 | 9 | 3.4% | 323 | 7.9% | 382 | 7.5% | 431 | 7.5% | 289 | 6.8% | 601 | 11.1% | 557 | 9.7% | 759 | 10.8% | 460 | 7.9% | 837 | 9.2% | 12,497 | 8.0% |
| 15 to 24 | 17 | 6.4% | 423 | 10.3% | 411 | 8.1% | 513 | 8.9% | 269 | 6.3% | 287 | 5.2% | 323 | 5.6% | 338 | 4.8% | 332 | 5.7% | 518 | 5.6% | 9,493 | 6.1% |
| 25 to 34 | 26 | 9.8% | 438 | 10.7% | 491 | 9.7% | 519 | 8.9% | 260 | 6.1% | 153 | 2.8% | 161 | 2.8% | 276 | 3.9% | 266 | 4.6% | 528 | 5.8% | 7,854 | 5.0% |
| 35 to 44 | 27 | 10.2% | 362 | 8.8% | 446 | 8.8% | 552 | 9.5% | 368 | 8.6% | 580 | 10.7% | 531 | 9.2% | 743 | 10.5% | 439 | 7.6% | 878 | 9.6% | 13,342 | 8.5% |
| 45 to 54 | 37 | **13.9%** | 257 | 6.3% | 332 | 6.6% | 414 | 7.1% | 421 | 9.9% | 521 | 9.6% | 556 | 9.6% | 595 | 8.4% | 462 | 8.0% | 696 | 7.6% | 13,526 | 8.7% |
| 55 – 64 | 18 | 6.8% | 124 | 3.0% | 187 | 3.7% | 179 | 3.1% | 205 | 4.8% | 214 | 3.9% | 300 | 5.2% | 268 | 3.8% | 304 | 5.3% | 324 | 3.5% | 7,647 | 4.9% |
| 65 to 74 | 6 | 2.3% | 67 | 1.6% | 107 | 2.1% | 110 | 1.9% | 169 | 4.0% | 131 | 2.4% | 176 | 3.1% | 162 | 2.3% | 217 | 3.7% | 227 | 2.5% | 5,368 | 3.4% |
| 75 to 84 | 2 | 0.8% | 37 | 0.9% | 49 | 1.0% | 61 | 1.1% | 62 | 1.5% | 43 | 0.8% | 61 | 1.1% | 64 | 0.9% | 128 | 2.2% | 128 | 1.4% | 2,945 | 1.9% |
| Over 84 | 0 | 0.0% | 9 | 0.2% | 11 | 0.2% | 13 | 0.2% | 14 | 0.3% | 5 | 0.1% | 7 | 0.1% | 16 | 0.2% | 32 | 0.6% | 14 | 0.2% | 603 | 0.4% |
| Female | 116 | 43.6% | 1,881 | 45.8% | 2,461 | 48.5% | 2,813 | 48.5% | 2,091 | 49.1% | 2,715 | 49.9% | 2,905 | 50.4% | 3,537 | 50.1% | 2,989 | 51.6% | 4,630 | 50.5% | 78,336 | 50.1% |
| Under 5 | 7 | 2.6% | 143 | 3.5% | 196 | 3.9% | 168 | 2.9% | 89 | 2.1% | 184 | 3.4% | 186 | 3.2% | 243 | 3.4% | 155 | 2.7% | 355 | 3.9% | 4,258 | 2.7% |
| 5 to 14 | 13 | 4.9% | 313 | 7.6% | 425 | 8.3% | 418 | 7.3% | 274 | 6.4% | 573 | 10.5% | 553 | 9.6% | 719 | 10.2% | 448 | 7.8% | 795 | 8.7% | 11,921 | 7.7% |
| 15 to 24 | 17 | 6.4% | 324 | 7.9% | 370 | 7.3% | 416 | 7.2% | 257 | 6.1% | 249 | 4.6% | 276 | 4.8% | 313 | 4.5% | 346 | 5.9% | 516 | 5.7% | 8,594 | 5.5% |
| 25 to 34 | 15 | 5.6% | 321 | 7.8% | 414 | 8.2% | 433 | 7.5% | 224 | 5.3% | 214 | 3.9% | 223 | 3.9% | 348 | 4.9% | 264 | 4.6% | 607 | 6.6% | 7,786 | 5.0% |
| 35 to 44 | 16 | 6.0% | 285 | 6.9% | 367 | 7.2% | 539 | 9.3% | 374 | 8.8% | 652 | 12.0% | 639 | 11.1% | 828 | 11.7% | 534 | 9.2% | 945 | 10.3% | 14,467 | 9.3% |
| 45 to 54 | 24 | 9.0% | 220 | 5.4% | 288 | 5.7% | 393 | 6.8% | 372 | 8.7% | 476 | 8.8% | 530 | 9.2% | 573 | 8.1% | 484 | 8.4% | 660 | 7.2% | 13,182 | 8.4% |
| 55 – 64 | 13 | 4.9% | 131 | 3.2% | 173 | 3.4% | 209 | 3.6% | 217 | 5.1% | 188 | 3.5% | 248 | 4.3% | 256 | 3.6% | 300 | 5.2% | 327 | 3.6% | 7,710 | 4.9% |
| 65 to 74 | 9 | 3.4% | 85 | 2.1% | 134 | 2.6% | 132 | 2.3% | 180 | 4.2% | 127 | 2.3% | 152 | 2.6% | 150 | 2.1% | 218 | 3.8% | 246 | 2.7% | 5,584 | 3.6% |
| 75 to 84 | 0 | 0.0% | 43 | 1.1% | 77 | 1.5% | 77 | 1.3% | 79 | 1.9% | 42 | 0.8% | 84 | 1.5% | 75 | 1.1% | 182 | 3.1% | 148 | 1.6% | 3,669 | 2.4% |
| Over 84 | 2 | 0.8% | 16 | 0.4% | 17 | 0.3% | 28 | 0.5% | 25 | 0.6% | 10 | 0.2% | 14 | 0.2% | 32 | 0.5% | 58 | 1.0% | 31 | 0.3% | 1,165 | 0.8% |

# El Dorado County
## Census Tracts - 2000

306.02

305.03

301.01

302

301.02

304.01 303

304.02

305.02

305.01

306.03

306.01

309.01

307.01

308.01

309.02

310

311

313.01

313.02

314.05

307.02

307.03

308.03

314.06

308.06

308.05

315.02

312

314.04

314.03

315.04

308.04

315.03

314.02

307.04