Understanding Population Pyramids

In a Metropolitan Area



Population Pyramids



Copyright @ Pearson Education, Inc., publishing as Benjamin Cummings.

Figure 7

Germany's Population by Age and Sex, 1996



Source: Federal Statistics Office (Germany), unpublished data.









Analysis of the Italy's Pyramid

• I. Decline in Birth Rate

- 2. Baby Boom
- 3. Low Death Rate with increasing number of elderly.
- 4. More women due to: a. longer life expectancy and World Wars (I and II)
- 5. More 75-79 yrs than 0-4 yrs. Signs of a future worker shortage and an overall declining population.









How is this population pyramid different from Italy's?

















Selected Population Pyramids in the United States







Answers

- I. B
- 2. A
- 3. E
- 4. C
- 5. G
- 6. H
- 7. F
- 8. D

Constructing Population Pyramids

Using the statistics provided in class construct 6 population pyramids. Give the location for each population pyramid on the

line above each graph.

The example to the right will be completed in class using the statistics below:

Bahrain					
Age	Both sexes	Male	Female	Male %	Female %
Total all ages	708573	394330	314243	55.65129	44.34871213
0-4	61481	31093	30388	4.388115	4.288619521
5-9	63726	32185	31541	4.542228	4.451340935
10-14	65285	32939	32346	4.648639	4.564949554
15-19	62202	31718	30484	4.476321	4.302167878
20-24	56295	28863	27432	4.073398	3.871443027
25-29	48500	25405	23095	3.585375	3.259367772
30-34	50612	27664	22948	3.904185	3.23862185
35-39	55010	31461	23549	4.440051	3.32344021
40-44	59617	35042	24575	4.945433	3.468238276
45-49	61127	38556	22571	5.441359	3.185416323
50-54	51930	35164	16766	4.96265	2.366164107
55-59	30725	20804	9921	2.936042	1.400138024
60-64	16199	9985	6214	1.40917	0.876973862
65-69	10628	5956	4672	0.840563	0.659353376
70-74	7249	3669	3580	0.517801	0.505240815
75-79	4576	2241	2335	0.316269	0.329535559
80+	3411	1585	1826	0.223689	0.257701041

Source for all statistics: http://www.census.gov/ipc/www/idb/index.html



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80+	3411	1585	1826	0.223689	0.257701041

Location: Bahrain

Location:

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Source for all statistics: http://www.census.gov/ipc/www/idb/index.html

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Day 2

Finding Age-Sex Statistics and Constructing Population Pyramids in Microsoft Excel

Directions for finding Age and Sex Statistics

go to: www.census.gov

AU U.S. Cen	sus Bureau	Subjects A	
Characteristic	SEARCH: FAC	ts ⊖ Census.gov GO	
Business Owr New on the Site Data Tools	Census 2000	Your Gateway to Census 2000 · Census 2000 EEO <u>Tabulations</u> · <u>Summary File 4 (SF 4)</u> · <u>Summary File</u> <u>3 (SF 3)</u>	Go to <u>www.census.gov</u>
American FactFinder		Estimates · American Community Survey ·	and click on
Jobs@Census	Households	State Median Income · Poverty · Health Insurance ·	"American FactFinder"
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Publications	Business &	Economic Census · Economic Indicators · NAICS · Survey of Business Owners · Government · E-Stats	
Are You in a Survey?	Industry	<u>Foreign Trade Export Codes</u> · <u>Local Employment</u> <u>Dynamics</u> · <u>More</u>	
About the Bureau	Coordination		
Regional Offices	Geography	Maps · IIGER · Gazetteer · More	
	POPULATION FINDE	R Fast Access to Information	
	PEOPLE	Basic Counts / Population	Click on "PEOPLE"
	HOUSING	Age and Sex Aging	
	BUSINESS AND GOVERNMENT	Disability Education Employment	"A ge and Sey"
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Poverty

Veterans

Race and Ethnicity
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American Community Survey -

DATA SETS

MAPS

DOWNLOAD CENTER



AGE AND SEX



United States | Tennessee | Memphis city

Memphis city, Tennessee



The following data are from Census 2000 unless otherwise indicated:

Reference N



NOTE: For information on confidentia http://factfinder.census.gov/home/en/	sismolestexustitu	Male an	d Fema	е			
Use the		Number		Р	ercent		
Total Population	Both sexes	Male	Female	Both sexes	Male	Female	Males per 100 females
Total population	650,100	307,643	342,457	100.0	100.0	100.0	89.8
Under 5 years	50,396	25,520	24,876	7.8	8.3	3 7.3	102.6
5 to 9 years	53,115	27,114	26,001	8.2	8.8	3 7.6	104.3
10 to 14 years	49,652	25,276	24,376	7.6	8.2	2 7.1	103.7
15 to 19 years	47,761	24,329	23,432	7.3	7.9	6.8	103.8
20 to 24 years	50,832	24,725	26,107	7.8	8.0	7.6	94.7
25 to 29 years	53,978	26,547	27,431	8.3	8.6	i 8.0	96.8
30 to 34 years	48,439	23,708	24,731	7.5	7.7	7.2	95.9
35 to 39 years	48,716	23,267	25,449	7.5	7.6	5 7.4	91.4
40 to 44 years	48,344	22,499	25,845	7.4	7.3	3 7.5	87.1
45 to 49 years	44,403	20,664	23,739	6.8	6.7	6.9	87.0
50 to 54 years	36,429	17,084	19,345	5.6	5.6	5.6	88.3
55 to 59 years	26,061	11,926	14,135	4.0	3.9	4.1	84.4
60 to 64 years	20,948	8,890	12,058	3.2	2.9	3.5	73.7
65 to 69 years	18,715	7,650	11,065	2.9	2.5	5 3.2	69.1
70 to 74 years	18,015	7,034	10,981	2.8	2.3	3.2	64.1
75 to 79 years	15,550	5,806	9,744	2.4	1.9	2.8	59.6
80 to 84 years	9,926	3,299	6,627	1.5	1.1	1.9	49.8
85 to 89 years	5,625	1,593	4,032	0.9	0.5	5 1.2	39.5
90 years and over	3,195	712	2,483	0.5	0.2	2 0.7	28.7

Age and Sex Statistics for Countries Around the World go to: http://www.census.gov/ipc/www/idbpyr.html

U.S. Census Bureau

IDB Population Pyramids

This page allows you to obtain population pyramids (graphs that show the distribution of population by age and

Note: Data updated 08-24-2006 (Release notes).



Type of output:

- Summary (2000, 2025, 2050).
- Select years.
- Dynamic.

Graph size:

- Small
- Medium
- Carge

Submit





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90+																				
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Directions for Constructing Population Pyramids in Microsoft Excel

go to: <u>www.prb.org</u> <u>Population Pyramids in Excel</u> Bookstore | Contact | Español | Français

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Educators

Lesson Plans Teachers Guides

How to Use MS Excel to Make an Age-Sex Graph

Materials Needed

- New Pyramid Spreadsheet (Excel: 37KB)
- Pyramid Blank Spreadsheet (Excel: 35KB)

Installing an Autoformat for a Population Pyramid in MS Excel

Open the link to "Excel Temple or to the desktop of your comp

> 1. Open the "Pyrblank" fil Under "Save as Type,"

> > This will add the pyran

2. Open the saved "New

Under Chart....

- select Chart type
- select "Custom types"
- select "User defined"
- select "Add" then type a "format name": population pyramid and click ok

This will add the custom format for a pyramid to the list of options in your program.

City Summit Population Projections Human Population Instructions Teaching Standards Build-A-Text Resources Glossary of Terms Training of Trainers US in the World



DID YOU KNOW?

U.S. poverty rates in 2005 varied from less than 8 percent in New Hampshire to 21 percent in Mississippi. More..

Download the Pyramids (Excel) Print out this Direction Page

Open up a Microsoft Excel Workbook

and fill in the following...

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2	0-4 yrs.				2552	24876				
3	5-9 yrs.				27114	26001				
4	10-14 yrs.				25276	24376				
5	15-19 yrs.				24329	27432				
6	20-24 yrs				24725	26107	_	•		• • •
7	25-29 yrs				26547	2743		vde in	the	statistics
8	30-34 yrs.				23708	24731		/		
9	35-39 yrs.				23267	25449		fre	\mathbf{h}	ho
10	40-44 yrs.				22499	25845				
11	45-49 yrs.				20664	23739		Cara		
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7	25-29 yrs				26547	27431	
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9	35-39 yrs.				23267	25449	
10	40-44 yrs.				22499	25845	
11	45-49 yrs.				20664	23739	
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13	55-59 yrs.				11926	14135	
14	60-64 yrs.				8890	12058	
15	65-69 yrs.				7650	11065	
16	70-74 yrs.				7034	10981	
17	75-79 yrs.				5806	9744	
18	80-84 yrs.				3299	6627	
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***The statistics for Males will all be negative numbers.

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1		Males(%)	Females(%)		Males(#)	Females(#)	
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3	5-9 yrs.	-4.17074			27114	26001	
4	10-14 yrs.	-3.88802	1		25276	24376	
5	15-19 yrs.	-3.74235			24329	23432	
6	20-24 yrs	-3.80326			24725	26107	
7	25-29 yrs	-4.08353			26547	27431	
8	30-34 yrs.	-3.64682			23708	24731	
9	35-39 yrs.	-3.57899			23267	25449	
10	40-44 yrs.	-3.46085			22499	25845	
11	45-49 yrs.	-3.17859			20664	23739	
12	50-54 yrs.	-2.6279			17084	19345	
13	55-59 yrs.	-1.83449			11926	14135	
14	60-64 yrs.	-1.36748			8890	12058	
15	65-69 yrs.	-1.17674			7650	11065	
16	70-74 yrs.	-1.08199			7034	10981	
17	75-79 yrs.	-0.89309			5806	9744	
18	80-84 yrs.	-0.50746			3299	6627	
19	85+ yts.	-0.24504			1593	4032	
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Click in C2 and type in the formula

Move the mouse to the bottom right corner of C2 and when the box appears drag the box down to CI9

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1		Males(%)	Females(%)	7
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3	5-9 yrs.	-4.17074	3.999539	
4	10-14 yrs.	-3.88802	3.749577	
5	15-19 yrs.	-3.74235	3.604369	
6	20-24 yrs	-3.80326	4.015844	
7	25-29 yrs	-4.08353	4.219505	
8	30-34 yrs.	-3.64682	3.804184	
9	35-39 yrs.	-3.57899	3.914629	
10	40-44 yrs.	-3.46085	3.975542	
11	45-49 yrs.	-3.17859	3.651592	
12	50-54 yrs.	-2.6279	2.975696	
13	55-59 yrs.	-1.83449	2.174281	
14	60-64 yrs.	-1.36748	1.854792	
15	65-69 yrs.	-1.17674	1.702046	
16	70-74 yrs.	-1.08199	1.689125	
17	75-79 yrs.	-0.89309	1.498846	
18	80-84 yrs.	-0.50746	1.019382	
19	85+ yrs.	-0.24504	0.620212	
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Researching a Population Pyramid Zip Code and Creating a PowerPoint Analyzing the Zip Code



Answers

- I. E
- 2. D
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- 4. A
- 5. F
- 6. C



As featured in 34 books, on Tech Guru's segment on WABC in New York, Bay News 9 in Tampa Bay, and USA Today's Hot Sites

We've collected and analyzed data from numerous sources to create as complete and interesting profiles of all U.S. cities as we could. We have over 43,000 city photos not found anywhere else, hundreds of thousands of maps, satellite photos, stats about residents (race, income, ancestries, education, employment...), geographical data, state profiles, crime data, sex offenders, housing, businesses, local news links based on our exclusive technology, birthplaces of famous people, political contributions, city government finances and employment, weather, hospitals, schools, libraries, houses, airports, radio and TV stations, zip codes, area codes, air pollution, water systems and their health and monitoring violations, professionally written city guides, a forum with over 120,000 registered members and 1,000,000 posts, 5000+ user-submitted facts, 5000+ exclusive local business profiles with photos, comparisons to averages, and more. If you ever need to research any city for any reason, from considering a move there to just checking where somebody you know is staying, this is the site for you.



Top 100 Lists of cities, including highest income, least crime, newest houses, most females, shortest commute, best educated residents, and many more.

Random city pictures submitted to our site.

In a limited-time promotion, you have a chance to win one of five \$200 prizes for sending us your city pictures!

Find City

Or browse by state (first link for each state is for cities with over 6000 residents, second is for smaller towns):

Alabama (AL 2) Alaska (AK 2) Arizona (AZ 2) Arkansas (AR 2) California (CA 2) Colorado (CO 2) Connecticut (CT 2) Kentucky (KY 2) Louisiana (LA 2) Maine (ME 2) Maryland (MD 2) Massachusetts (MA 2) Michigan (MI 2) Minnesota (MN 2) North Dakota (ND 2) Ohio (OH 2) Oklahoma (OK 2) Oregon (OR 2) Pennsylvania (PA 2) Rhode Island (RI 2) South Carolina (SC 2)

Germantown, Tennessee



Germantown, Tennessee

Ads by Google

Back to Germantown, TN housing info, Shelby County, Tennessee, TN smaller cities, TN small cities, All Cities.

Homes Germantown Tn

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Real Estate-Germantown TN

Virginia Robinson sales homes - in Mississippi & Tennessee www.onlinetnhomes.com

The Memphis Daily News

Business news, government coverage, public notices, public records. www.memphisdailynews.com

Memphis Apartments Free Search for Apartments









Submit pictures of this city Click here for promotion details and to upload your Germantown, Tennessee photos

Current weather forecast for Germantown, TN

Population (year 2000): 37,348. Estimated population in July 2006: 37,476 (+0.3% change)

2000 to 2	2000 to 2005		population	on change	
-20%	-10%	0	+10%	+20%	
Males Fema	s: 18,195 les: 19,1	53		(48.7 (51.3	%) 3%)





city-data.com Germantown, TN



For population 25 years and over in Germantown High school or higher: 98.0% Bachelor's degree or higher: 60.0% Graduate or professional degree: 22.4% Unemployed: 1.9% Mean travel time to work: 22.5 minutes For population 15 years and over in Germantown city Never married: 18.5% Now married: 71.2% Separated: 0.9% Widowed: 3.9% Divorced: 5.4% 1,971 residents are foreign born (2.8% Asia, 1.6% Europe). This city: 5.3% Tennessee: 2.8%

city-data.com Comparing Median Household Income in Germantown, Bartlett, and Memphis

Estimated median household income in 2005: \$33,244 (it was \$32,285 in 2000) Memphis \$33,244 Tennessee: \$38,874
Estimated median house/condo value in 2005: \$86,200 (it was \$72,800 in 2000) Memphis \$86,200 Tennessee: \$114,000
Estimated median household income in 2005: \$68,500 (it was \$66,369 in 2000) Bartlett \$68,500 Tennessee: \$38,874
Estimated median house/condo value in 2005: \$170,600 (it was \$133,100 in 2000) Bartlett \$170,600 Tennessee: \$114,000
Estimated median household income in 2005: \$97,600 (it was \$94,609 in 2000) Germantown \$97,600 Tennessee: \$38,874
Estimated median house/condo value in 2005: \$277,600 (it was \$216,500 in 2000) Germantown \$277,600 Tennessee: \$114,000

Screen Shot Directions

Full Screen PDF:
 Hold down: Shift + Apple + 3.

Select a specific part of the screen:
 Hold down: Shift + Apple + 4.

Yahoo or Google Maps

Find the location your wish to take a screen shot in Yahoo or Google maps.

The screen shot will be saved as **Picture1.pdf** on the desktop.

When you are ready to insert the pdf into your PowerPoint, drag the pdf from the desktop to your powerpoint document.

Screen Shot for Houston High School



Analysis and Evaluation

- With the population pyramids displayed on the wall discuss the differences between the population pyramids in different areas of the county.
- Why are there differences?
- Where in the county is it wealthy? Poor?
- Where in the county is the population the youngest? Oldest?
- How do the suburbs differ from the inner city?





