

GRE MATH WorkSheet – 13 (Data Interpretation - 1)

Example 1:

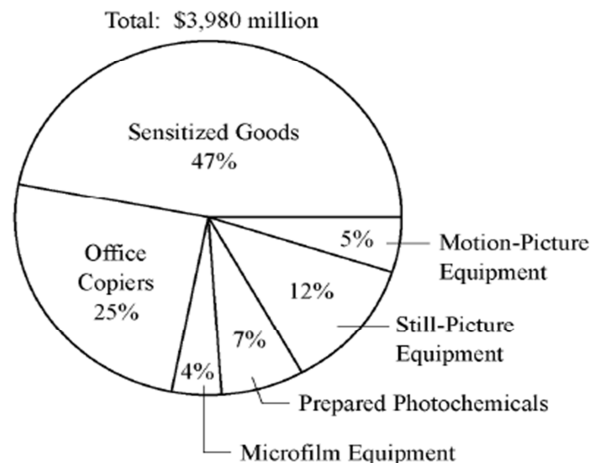
Distribution of Customer Complaints received by Airline P, 2003 & 2004

Category	2003	2004
Flight problem	20.0%	22.1%
Baggage	18.3	21.8
Customer service	13.1	11.3
Oversales of seats	10.5	11.8
Refund problem	10.1	8.1
Fare	6.4	6.0
Reservation and ticketing	5.8	5.6
Tours	3.3	2.3
Smoking	3.2	2.9
Advertising	1.2	1.1
Credit	1.0	0.8
Special passenger accommodation	0.9	0.9
Other	6.2	5.3
Total	100.0%	100.0%
Total number of complaints	22,998	13,278

- Approximately how many complaints concerning credit were received by Airline *P* in 2003?
- By approximately what percent did the total number of complaints decrease from 2003 to 2004?
- Based on the information in the table, which of the following statements are true?
 - In each of the years 2003 and 2004, complaints about flight problems, baggage, and customer service together accounted for more than 50 percent of all customer complaints received by Airline *P*.
 - The number of special passenger accommodation complaints was unchanged from 2003 to 2004.
 - From 2003 to 2004, the number of flight problem complaints increased by more than 2 percent.

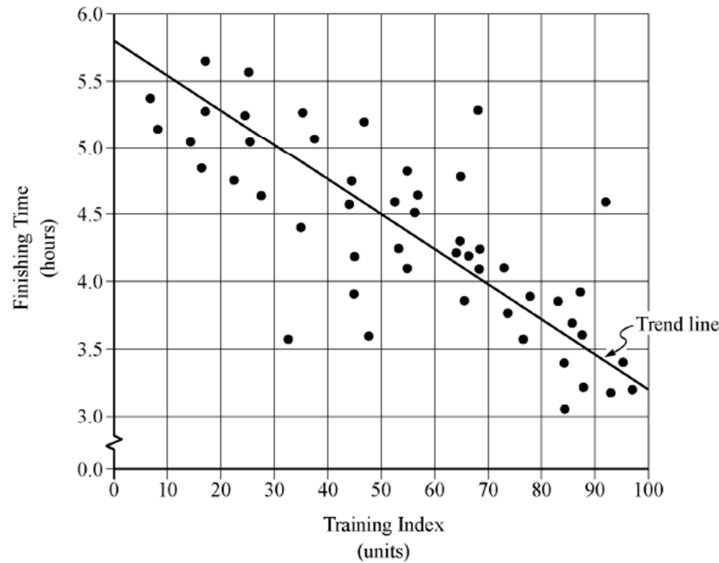
Example 2:

UNITED STATES PRODUCTION OF PHOTOGRAPHIC EQUIPMENT AND SUPPLIES IN 1971



- (a) Approximately what was the ratio of the value of sensitized goods to the value of still-picture equipment produced in 1971 in the United States?
- (b) If the value of office copiers produced in 1971 was 30 percent greater than the corresponding value in 1970, what was the value of office copiers produced in 1970?

Example 3:

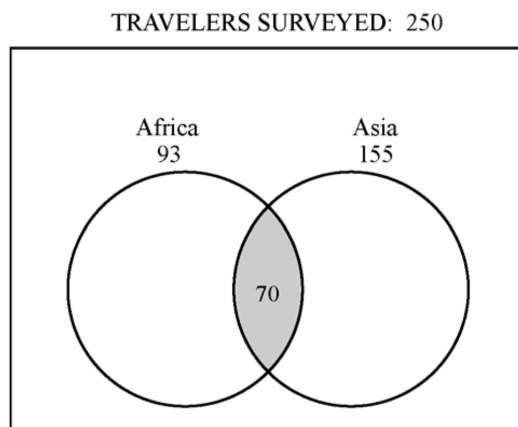


Finishing Time and Training Indices for 50 Bicyclists in a race

A bicycle trainer studied 50 bicyclists to examine how the finishing time for a certain bicycle race was related to the amount of physical training in the three months before the race. To measure the amount of training, the trainer developed a training index, measured in “units” and based on the intensity of each bicyclist’s training. The data and the trend of the data, represented by a line, are displayed in the scatterplot above.

- (a) How many of the 50 bicyclists had both a training index less than 50 units and a finishing time less than 4.5 hours?
- (b) What percent of the 10 fastest bicyclists in the race had a training index less than 90 units?

Example 4:

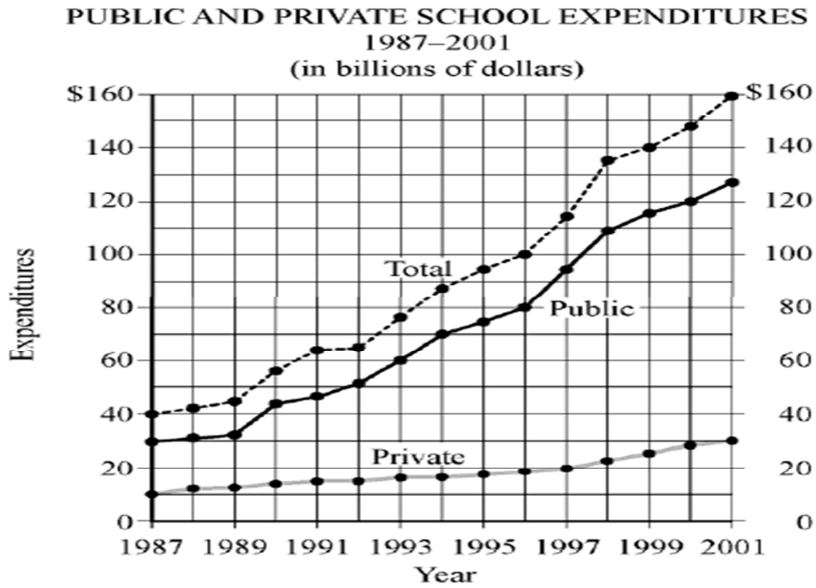


In a survey of 250 European travelers, 93 have traveled to Africa, 155 have traveled to Asia, and of these two groups, 70 have traveled to both continents, as illustrated in the Venn diagram above.

- (a) How many of the travelers surveyed have traveled to Africa but not to Asia?

- (b) How many of the travelers surveyed have traveled to at least one of the two continents of Africa and Asia?
- (c) How many of the travelers surveyed have traveled neither to Africa nor to Asia?

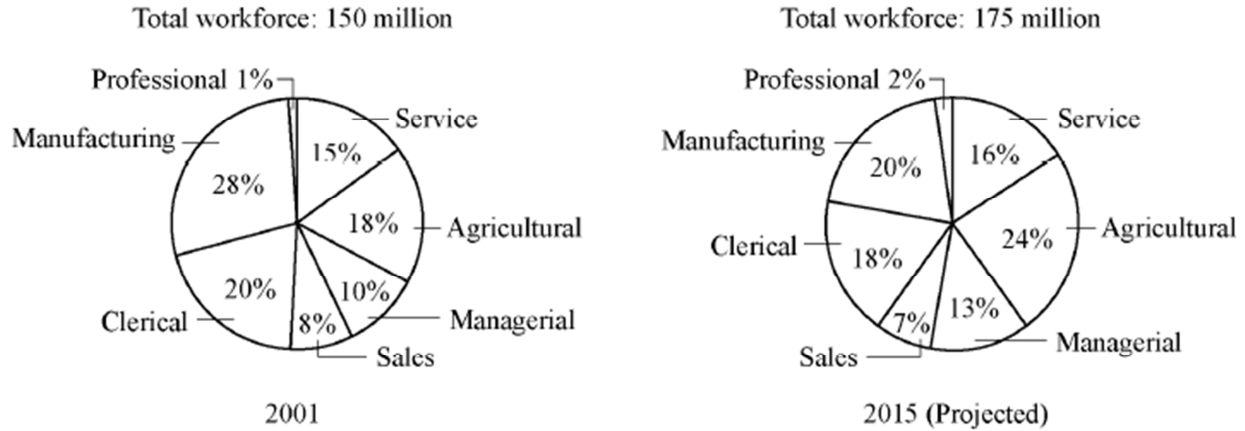
Example 5:



- (a) For which year did total expenditures increase the most from the year before?
- (b) For 2001, private school expenditures were approximately what percent of total expenditures?

Example 6:

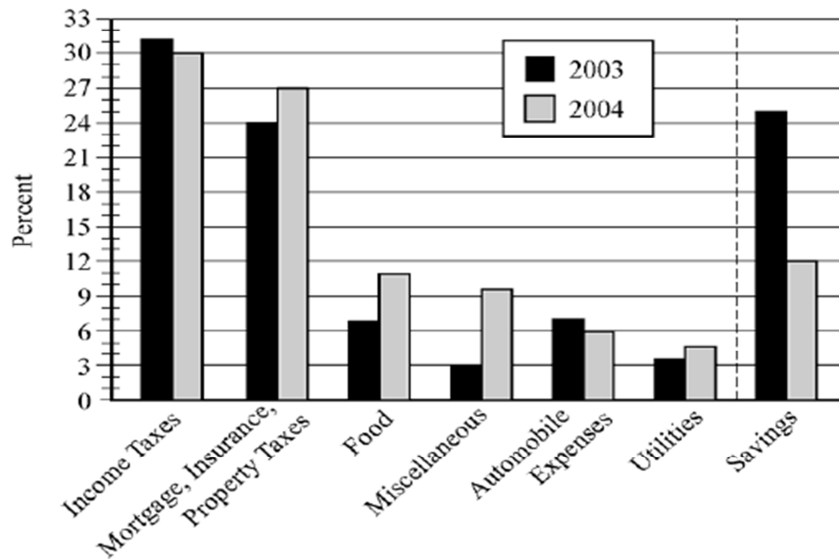
DISTRIBUTION OF WORKFORCE BY OCCUPATIONAL CATEGORY FOR REGION Y IN 2001 AND PROJECTED FOR 2015



- (a) In 2001, how many categories each comprised more than 25 million workers?
 (b) What is the ratio of the number of workers in the Agricultural category in 2001 to the projected number of such workers in 2015 ?
 (c) From 2001 to 2015, there is a projected increase in the number of workers in which of the following categories? A) Sales B) Services C) Clerical

Example 7:

A FAMILY’S EXPENDITURES AND SAVINGS AS A PERCENT OF ITS GROSS ANNUAL INCOME*



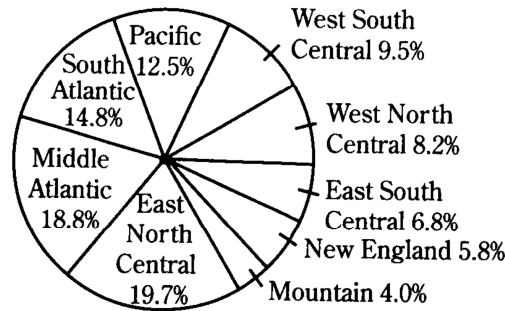
*2003 Gross Annual Income - \$50,000
 *2004 Gross Annual Income - \$45,000

- (a) In 2003 the family used a total of 49 percent of its gross annual income for two of the categories listed. What was the total amount of the family’s income used for those same categories in 2004 ?

(b) Of the seven categories listed, which category of expenditure had the greatest percent increase from 2003 to 2004 ?

Example 8:

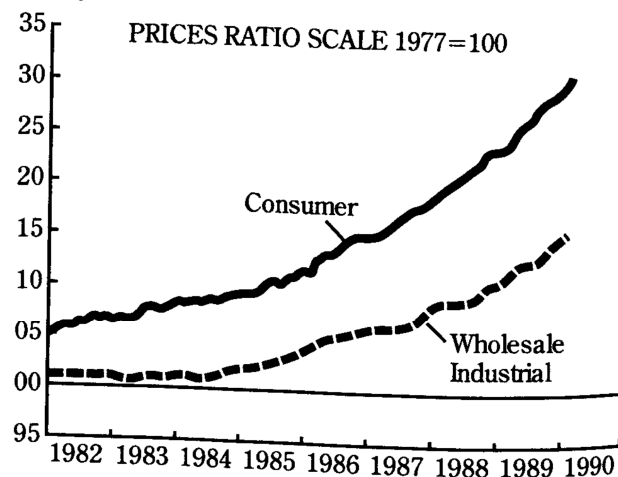
POPULATION BY REGION, 1964



Total U.S. Population: 191.3 million = 100%

- Which region was the most populated region in 1964?
 a) East North Central b) Middle Atlantic c) South Atlantic d) Pacific e) New England
- What part of the entire population lived in Mountain region?
 a) 1/10 b) 1/30 c) 1/50 d) 1/25 e) 1/8
- What was the approximate population in the Pacific region?
 a) 20 mn b) 24 mn c) 30 mn d) 28 mn e) 15 mn
- Approx how many more people lived in the Middle Atlantic region than in the South Atlantic?
 a) 4.0 mn b) 7.7 mn c) 5.2 mn d) 9.3 mn e) 8.5 mn
- What was the total population in all the regions combined?
 a) 73.3 mn b) 100.0 mn c) 191.3 mn d) 126.8 mn e) 98.5 mn

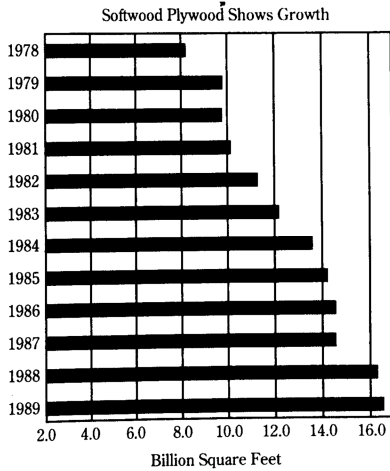
Example9:



- On the ratio scale, what were consumer prices recorded as of the end of 1985?
 a) 95 b) 100 c) 105 d) 110 e) 115
- During what year did consumer prices rise fastest?
 a) 1983 b) 1985 c) 1987 d) 1988 e) 1989
- When wholesale and industrial prices were recorded as 110, consumer prices were recorded as?
 a) 125-120 b) 120-115 c) 115-110 d) 110-105 e) 105-100

- d) For the eight years 1982-1989 inclusive, the average increase in consumer prices were?
a) 1 point b) 2 point c) 3 point d) 4 point e) 5 point
- e) The percentage increase in wholesale and industrial prices between the beginning of 1982 and the end of 1989 was?
a) 1% b) 5% c) 10% d) 15% e) <1%

Example10:



- a) What was the ratio soft plywood produced in 1978 as compared with that produced in 1987?
a) 1:1 b) 2:3 c) 1:2 d) 3:4 e) 1:3
- b) For the years 1978 through 1983, excluding 1982, how many billion square feet of plywood were produced altogether?
a) 23.2 b) 29.7 c) 34.1 d) 40.7 e) 50.5
- c) Between which consecutive odd years and between which consecutive even years was the plywood production jump greatest?
a) 1985 & 1987; 1978 & 1980 b) 1983 & 1985; 1984 & 1986 c) 1979 & 1981; 1980 & 1982 d) 1981 & 1983; 1980 & 1982 e) 1983 & 1985; 1982 & 1984