	Sixty-eight people are sitting contains at most 4 people. possible number of cars the 1 of the 68 people?	What is the maximum
1	00000	2 3 4 8 12
	If <i>n</i> is any prime number gre of the following CANNOT be	
2	 ○ n - 4 ○ n - 3 ○ n - 1 ○ n + 2 ○ n + 5 	
	Column A	<u>Column B</u>
2	Column A Mr. and Mrs. Smith's combined annual income in 1988	Column B Mr. and Mrs. Smith's combined annual income in 1989
3	Mr. and Mrs. Smith's combined annual income	Mr. and Mrs. Smith's combined annual income
3	Mr. and Mrs. Smith's combined annual income	Mr. and Mrs. Smith's combined annual income in 1989 en 101 and 201 are equal
3	Mr. and Mrs. Smith's combined annual income in 1988 How many integers between to the square of some integers.	Mr. and Mrs. Smith's combined annual income in 1989 en 101 and 201 are equal ger? vo uree
	Mr. and Mrs. Smith's combined annual income in 1988 How many integers between to the square of some integers to the square of some integers.	Mr. and Mrs. Smith's combined annual income in 1989 en 101 and 201 are equal ger? vo iree iur
	Mr. and Mrs. Smith's combined annual income in 1988 How many integers betwee to the square of some integers to the square of some integers.	Mr. and Mrs. Smith's combined annual income in 1989 en 101 and 201 are equal ger? vo aree our //e vas 12 1/2 dollars per share.
	Mr. and Mrs. Smith's combined annual income in 1988 How many integers between to the square of some integers to the square of some integers. The price of a certain stock with the square of a	Mr. and Mrs. Smith's combined annual income in 1989 en 101 and 201 are equal ger? vo aree our //e vas 12 1/2 dollars per share.
	Mr. and Mrs. Smith's combined annual income in 1988 How many integers between to the square of some integers between the square of some integers. The price of a certain stock with the price increased x percentages.	Mr. and Mrs. Smith's combined annual income in 1989 en 101 and 201 are equal ger? yo aree our ye combined annual income in 1989 was 12½ dollars per share.



The "reflection" of a positive integer is obtained by reversing its digits. For example, 321 is the reflection of 123. The difference between a five-digit integer and its reflection must be divisible by which of the following? Column A Column B 1.03 1 - 0.03The original value of machine X is V dollars, while the original value of machine Y is 2V dollars. Both machines depreciate in value at a constant rate of 10 percent of their original value per year. Column A Column B The value of machine XThe value of machine Y after 3 years after 6 years If n is an odd integer, which of the following is the square of the next larger odd integer?

If 55 percent of a group of people have brown hair and 80 percent of the same group do <u>not</u> have red hair, what fraction of those who do not have brown hair have red hair?



10



$$n = \frac{k + \frac{r}{s}}{\frac{t}{v}}$$

In the equation above, ℓ , r, s, t, and v represent positive numbers. Multiplying which one of these numbers by 2 will reduce the value of n to $\frac{1}{2}$ of its present value?



11

A certain money market account that had a balance of \$48,000 during all of last month earned \$360 in interest for the month. At what simple annual interest rate did the account earn interest last month?



12



Column A

Column B

The two-digit integer that equals twice the sum of its digits

16

When the even integer n is divided by 7, the remainder is 3.

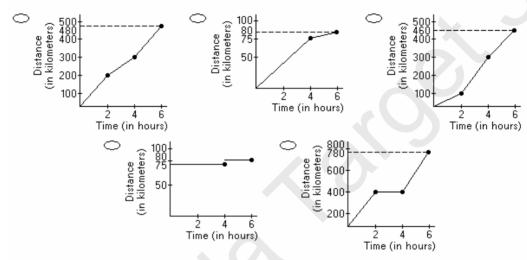
Column A Column B

The remainder when 10

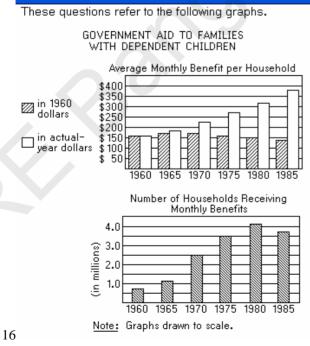
n is divided by 14

14

A car travels at an average speed of 80 kilometers per hour during a 6-hour trip and averages 75 kilometers per hour for the first 4 hours of the trip. Which of the following distance-versus-time graphs is consistent with this information?

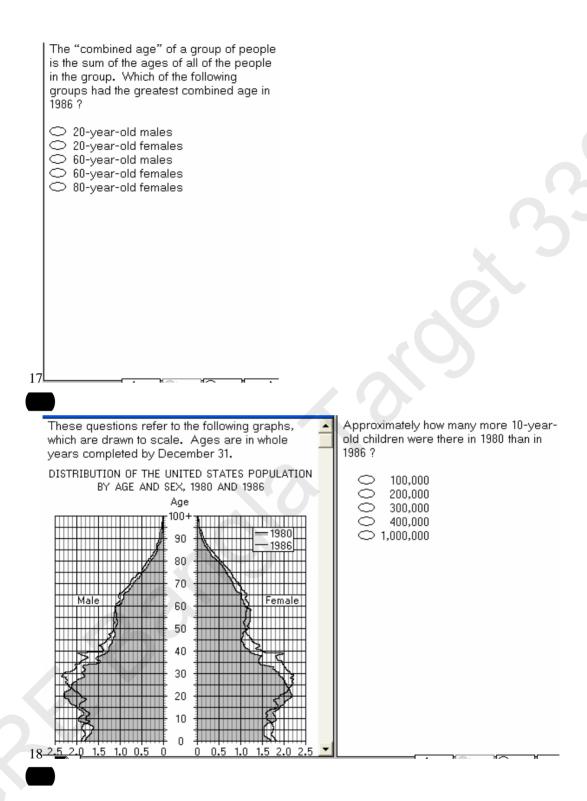


15



The number of households receiving monthly benefits in 1960 was approximately what fraction of the number receiving monthly benefits in 1975?

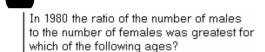
- $\bigcirc \frac{9}{1}$
- ⁵/_e
- $\bigcirc \frac{16}{27}$
- \bigcirc $\frac{11}{32}$
- O 35



The population of females was greater in 1980 than in 1986 for approximately what percent of the ages from 0 to 100 years?

- O 15%
- 25%55%
- 75%85%

19



- O 10 O 30
- 50 70
- 90

20

 $\lfloor x \rfloor$ represents the greatest integer less than or equal to x and $\lceil x \rceil$ represents the least integer greater than or equal to x.

Column A

Column B

21

These questions refer to the following table.

APPARENT FAHRENHEIT TEMPERATURES
DUE TO WIND-CHILL FACTOR
(corresponding to actual temperatures and wind speeds)

WIND SPEEDS (miles per hour)		TUAL (degree			
	-10	0	10	20	30
5 10 15 20 25 30 35 40	-15 -34 -45 -53 -59 -64 -67 -69	-5 -22 -31 -39 -44 -49 -52 -53	7 -9 -18 -24 -29 -33 -35 -37	16 3 -5 -10 -15 -18 -20 -21	27 16 9 4 1 -2 -4

If the actual temperature is 13 degrees Fahrenheit and the wind speed is 14 miles per hour, then the apparent temperature could be

- 5 degrees Fahrenheit
- -12 degrees Fahrenheit
- –20 degrees Fahrenheit
- -25 degrees Fahrenheit

These questions refer to the following table.

APPARENT FAHRENHEIT TEMPERATURES DUE TO WIND-CHILL FACTOR (corresponding to actual temperatures and wind speeds)

WIND SPEEDS (miles per hour)	ACTUAL TEMPERATURES (degrees Fahrenheit)				
	-10	0	10	20	30
5 10 15 20 25 30 35 40	-15 -34 -45 -53 -59 -64 -67	-5 -22 -31 -39 -44 -49 -52 -53	7 -9 -18 -24 -29 -33 -35	16 3 -5 -10 -15 -18 -20 -21	27 16 9 4 -2 -4 -5

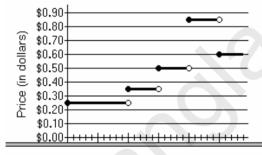
Which of the following can be inferred from the table?

- I. The apparent temperature for an actual temperature of 20 degrees Fahrenheit and a wind speed of 15 miles per hour is the same as that for an actual temperature of 30 degrees Fahrenheit and a wind speed of 40 miles per hour.
- II. At a constant wind speed, as the actual temperature increases, the difference between the actual and the apparent temperatures also increases.
- III. At a constant actual temperature of -10 degrees Fahrenheit, the apparent temperature decreases at a constant rate as the wind speed increases.
- I and III only II only
 - II and III only I, II, and III

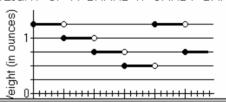
23

These questions refer to the following graphs, which are drawn to scale. An open dot means the point is not included.

PRICE OF A BRAND X CANDY BAR

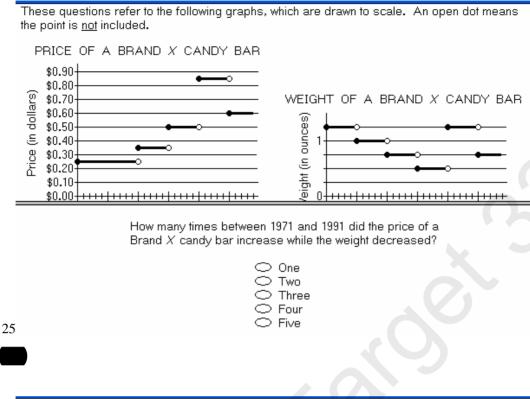


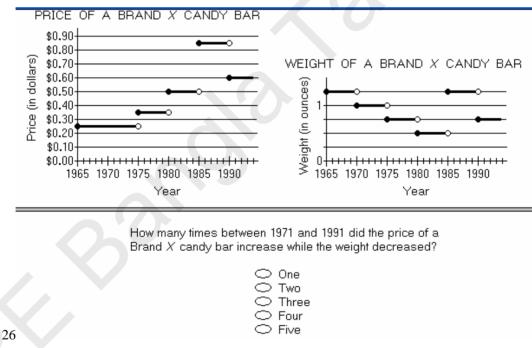
WEIGHT OF A BRAND X CANDY BAR



From 1982 to 1987 the price of a Brand X candy bar increased by approximately what percent?

- 40%
- 70%
- 150%





Of the 500 delegates attending a convention, 200 are Republicans and the rest are Democrats. One hundred of the delegates are vegetarians and, of those who are not vegetarians, 270 are Democrats. How many of the vegetarian delegates are Republicans?

27

 ${\mathcal S}$ is a set of n consecutive integers.

Column A

Column B

The mean of S

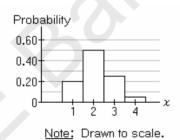
The median of S

28

An airline must charge an 11 percent tax on the price of an airline ticket. The airline wishes to charge the whole-dollar amount of \$433.00 for the ticket, including the tax. What price, to the nearest \$0.01, should the airline set for the ticket before the tax is added?

\$385.37 \$389.70 \$390.09 \$393.64 \$422.00

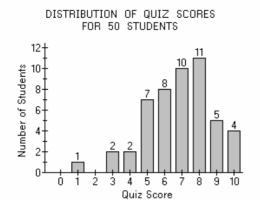
29



From the probability histogram, what is the probability that x is either 1 or 2?

0.35 0.45 0.50 0.70

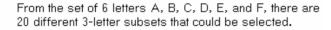
These questions refer to the following information.



The average (arithmetic mean) quiz score is closest to which of the following?

00000

31



Column A

The number of 3-letter subsets that include the letter F

Column B

10

32

These questions refer to the following information.

Thirty hospital patients who had been treated for the same illness were given a new treatment in a research study. They were then asked to evaluate whether five symptoms, \mathcal{H} , \mathcal{L} , \mathcal{P} , \mathcal{T} , and \mathcal{V} , were made better or worse by the new treatment compared to the old treatment. For each symptom, each patient used one of five ratings:

2: much better

1: somewhat better

0: neither better nor worse

-1: somewhat worse

-2: much worse

For each symptom, the sum and standard deviation of the ratings are listed below.

RATINGS FOR SYMPTOM

Rating	2	1	0	-1	-2
Number of Patients	7	12	۲	ω	ť

In the Ratings for Symptom \mathcal{H} table shown, which of the following could be r, s, and t, respectively?

0,7,6

 \bigcirc 1, 1, 9

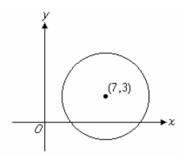
🕽 1, 10, 4

2, 19, 0

 \bigcirc 2.4.5

For each symptom, the sum and standard deviation of the ratings are listed below.

Symptom	Sum of 30 Ratings	Standard Deviation of 30 Ratings
Н	12	1.40
Z	35	0.69
P	-33	0.79
7	-26	0.43
V	2	0.89



If (7, 3) is the center of the circle, then the radius of the circle could be equal to which of the following?

00000

34

If x + 2y = 2 and $(x + y)^2 = 9$, which of the following is a possible value of y?

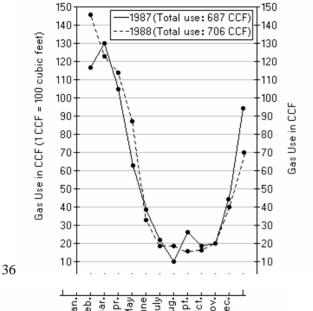


$$\bigcirc -\frac{3}{2}$$

$$\bigcirc$$
 5

These questions refer to the following graph, which is drawn to scale.

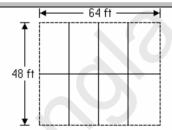
A HOUSEHOLD'S MONTHLY GAS USE FOR 1987 AND 1988



In what month was gas use in one of the years nearly double that for the same month in the other year?

- February
- O July
- August September
- October

Jan.-Feb.-Mar.-May-June-July-Sept.-Sept.-Oct.-



The figure represents a rectangular level plot of land, subdivided into identical rectangular gardens.

Column A

The total number of feet of fencing, indicated by the solid lines, needed to separate each of the gardens

Column B

The total number of feet in the perimeter of the plot

37

The curvature of a circle is defined to be the reciprocal of the radius of the circle.

Column A

The curvature of a circle with circumference 35π

Column B

The curvature of a circle with circumference 36π

The length of a rectangular box is 4 inches longer than the depth, and the width of the box is 1 inch less than the length. The depth of the box is between 2 inches and 4 inches.

Column A	<u>Column B</u>
The volume of the box in cubic inches	200

39



If n is an integer and $99 < n^2 < 200$, then n could have at most how many values?

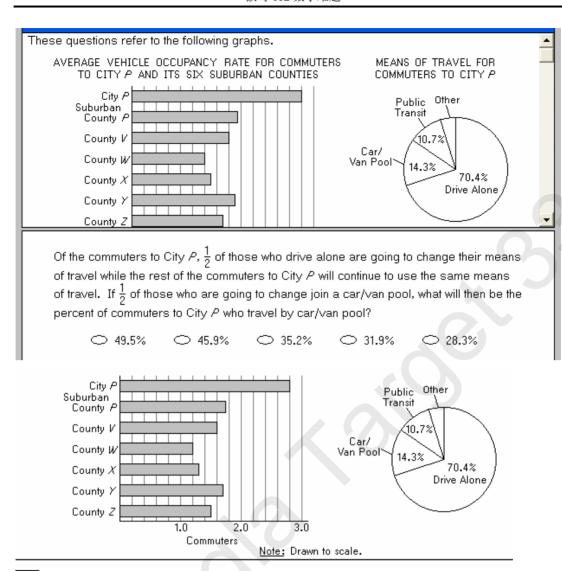
\circ	Two
\circ	Four
\circ	Six
\circ	Eigh
\bigcirc	Ten

40



41

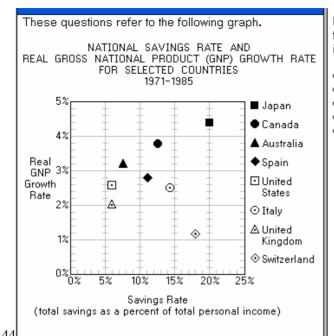
If one number is chosen at random from the first 1,000 positive integers, what is the probability that the number chosen is a multiple of both 2 and 8?



43

If the total number of commuters to County W is twice the number to County Z, and if the average number of vehicles that transport commuters daily to County W is 30,000, what is the approximate average number of vehicles that transport commuters daily to County Z?

12,000 15,000 18,000 27,000



For which of the countries was the difference between its savings rate and its real GNP growth rate <u>least</u>?

- Japan
- 🗢 Canada
- Switzerland
- The United States
- The United Kingdom

Which of the following statements can be inferred from the graph?

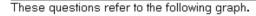
- On the average, people in the United States saved about the same amount of money as people in the United Kingdom.
- II. The median of the savings rates for the eight countries was greater than 11 percent.
- III. Only two of the countries had a higher savings rate than Italy.
- O I only
- II only
- III only
- I and II
- II and III

A certain doctor suggests that an individual's daily water intake be $\frac{1}{2}$ ounce per pound of body weight plus 8 ounces for every 25 pounds by which the individual exceeds his or her ideal weight. If this doctor suggests a daily water intake of 136 ounces for a particular 240-pound individual, how many pounds above his or her ideal weight is that individual?

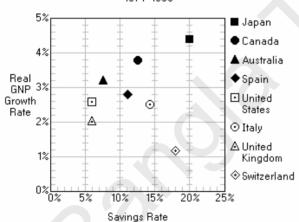


120

46



NATIONAL SAVINGS RATE AND REAL GROSS NATIONAL PRODUCT (GNP) GROWTH RATE FOR SELECTED COUNTRIÉS 1971-1985



(total savings as a percent of total personal income)

47

For how many of the countries shown was the savings rate more than 5 times the real GNP growth rate?

- C Five
- Four
- Three Two
- One

Column A 10 $(0.9)^2$

Column B

10²

- The quantity in Column A is greater.
- The quantity in Column B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.



If the average (arithmetic mean) of x, y, z, 5, and 7 is 8, which of the following must be true?

- I. The median of the five numbers cannot be 5.
- II. At least one of x, y, and z is greater than 9.
- III. The range of the five numbers is 2 or more.

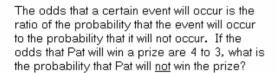
O I only

○ II only ○ III only

◯ I and III

II and III

49



 $\bigcirc \frac{1}{4}$

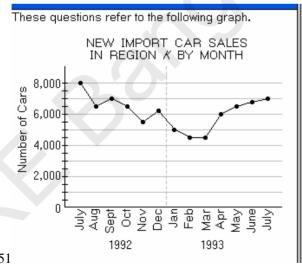
 \bigcirc

0

0 {

 $\bigcirc \frac{3}{4}$

50



The percent increase from the least monthly car sales shown to the sales in July 1993 was most nearly equal to

20%

35%

45%
55%

O 65%

52 图同 33

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These questions refer to the following information.

Thirty hospital patients who had been treated for the same illness were given a new treatment in a research study. They were then asked to evaluate whether five symptoms, \mathcal{H} , \mathcal{L} , \mathcal{P} , \mathcal{T} , and \mathcal{V} , were made better or worse by the new treatment compared to the old treatment. For each symptom, each patient used one of five ratings:

For which symptom are the ratings closest to the arithmetic mean for that symptom, as measured by the standard deviation of its ratings?





53

The cost of sending a package special delivery is x cents per ounce up to 10 ounces and y cents for each ounce in excess of 10. Which of the following represents the total cost, in cents, of sending special delivery a package weighing w ounces, if w > 10?

$$x + (w - 10)y + 10$$

 $x + (w - 10) + y$
 $10x + 10(w - y)$

$$\bigcirc$$
 10x + y(w - 10)

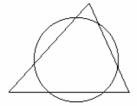
$$\bigcirc$$
 10x + wy



54

The jewels in a certain tiara consist of diamonds, rubies, and emeralds. If the ratio of diamonds to rubies is $\frac{5}{6}$ and the ratio of rubies to emeralds is $\frac{8}{3}$, what is the least number of jewels that could be in the tiara?

\bigcirc	16
\bigcirc	22
\bigcirc	40
\bigcirc	50
\bigcirc	ß.



Column A

Column B

The area of the triangular region

The area of the circular region

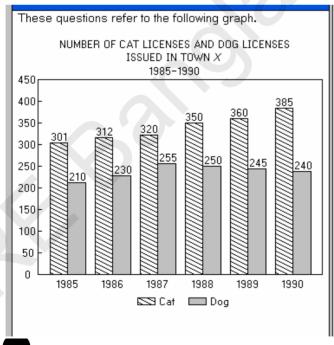


56

If 3 cars have traveled a total of 180,000 miles and the distance traveled by each car differs by at least 1 mile from the distance traveled by either of the other 2 cars, what is the minimum possible number of miles traveled by the car with the most mileage?

60,0060,0061,00091,000180,000

57



According to the graph, which of the following statements must be true?

- I. For each of the years 1986 through 1990, the number of cat licenses issued was greater than that of the previous year.
- II. In Town X more households had dogs in 1986 than in 1985.
- III. For at least one of the years shown, the number of cat licenses issued was more than 1½ times the number of dog licenses issued.
- O I only
 I only
- 📿 III only
- ◯ Iand II ◯ Iand III

How many 4-digit numbers begin with an odd digit and end with an even digit?				
Column B				
6,400				
rbles, 7 are green, are blue. Two marbles om the bowl without				
Column B				
The probability that one marble is green and the other marble is blue				
If the sum of four consecutive even integers is 340, then the average of the two <u>larger</u> integers is				
0 83 0 85 0 86 0 87 0 88				

Note: Drawn to scale.

In 1987, \$30 million of the total amount of federal grants to the arts was appropriated to match funds raised through private sources. What was the ratio of federal matching funds to federal nonmatching funds in that year?

63

The 20 people at a party are divided into n mutually exclusive groups in such a way that the number of people in any group does not exceed the number in any other group by more than 1.

Column A

Column B

The value of n if at least one of the groups consists of 3 people

Ł



64

Twenty-seven people applied for a certain managerial job. According to one report, the first interview narrowed the field down to fewer than 7 candidates. Another report claimed that the first interview eliminated fewer than 23 applicants from consideration. If both reports are true, and if x applicants were eliminated by the first interview, what are the possible values of x?

21 only22 only

20 and 21 only

21 and 22 only

🗅 21, 22, and 23



To obtain an FHA mortgage for \$50,000 or more, the home buyer must have a down payment equal to 4 percent of the first \$25,000 of the mortgage amount and 5 percent of the portion in excess of \$25,000. At settlement the buyer pays a mortgage-insurance premium equal to 3 percent of the mortgage amount. What is the maximum FHA mortgage, if any, a buyer can obtain if the buyer has only \$6,000 available for the down payment and insurance premium?

\$62,500
\$71,875
\$78,125
\$125,000
The home buyer cannot obtain an FHA mortgage.



66

A \$550 donation to a community fund is to be divided among three organizations. The hospital is to get twice as much as the community recreation center and three times as much as the volunteer fire company. How much of the donation is to go to the community recreation center?

\$50 \$75 \$100 \$150 \$200



If n is a positive integer, then n^+ denotes a number such that $n < n^+ < n + 1$.

Column A

20+
4+

5+

○ The quantity in Column A is greater.
○ The quantity in Column B is greater.

The two quantities are equal.
 The relationship cannot be determined from the information given.



A certain holiday is always on the fourth Tuesday of Month X. If Month X has 30 days, on how many different dates of Month X can the holiday fall?





69

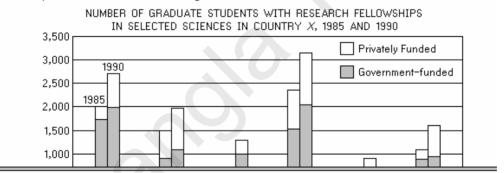
How many positive integers can be expressed as a product of two or more of the prime numbers 5, 7, 11, and 13 if no one product is to include the same prime factor more than once?

EightNineTenElevenTwelve



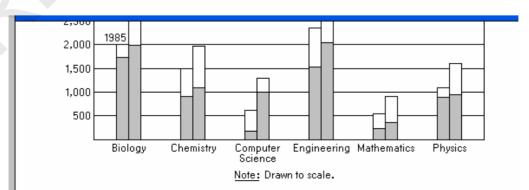
70

These questions refer to the following data.



In 1990 for which of the selected sciences did the greatest percent of its graduate students have research fellowships?





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GRADUATE STUDENTS IN SELECTED SCIENCES IN COUNTRY X, 1990

	Number of Graduate Students	Number with Research Fellowships
Biology	3,691	2,700
Chemistry	2,498	1,959
Computer Science	2,196	1,310
Engineering	6,920	3,114
Mathematics	2,450	889
Physics	2,824	1, 614



71

w, x, y, and z are all integers such that 1 < w < x < y < z and wxyz = 210.

Column A	<u>Column B</u>
w + <i>z</i>	10

- The quantity in Column A is greater.
- The quantity in Column B is greater.
- The two quantities are equal.
- The relationship cannot be determined from the information given.



72

$$\frac{9}{20}$$
 of 2.8 is

- 0.00126
- 0.0126
- O.126
- 1.26





Seven one-dollar bills are to be distributed among Lucia, Gomez, and Domingo so that each person receives at least \$1.

Column A

Column B

The number of ways to distribute the bills so that at least one person receives at least \$3

The total number of ways to distribute the bills



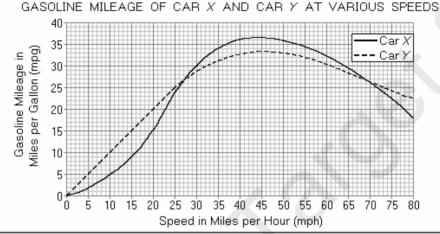
 $3 < \chi < 5$

Column A

Column B



These questions refer to the following graph, which is drawn to scale.



If car X is driven at a constant speed such that its qasoline mileage is 24 miles per gallon, then the speed of $\operatorname{car} X$, to the nearest mile per hour, could be

20 mph 22 mph 29 mph 71 mph 73 mph

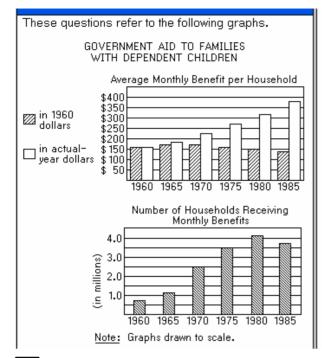
76

Approximately how many gallons of gasoline would car X use if it were driven for 2 hours at a constant speed of 45 miles per hour?

1.5

2.0

C 2.5



If there is an 80 percent increase from 1970 to 1995 in the number of households receiving monthly benefits, then the increase in the number of households receiving monthly benefits from 1985 to 1995 will be approximately

1,200,000 1,100,000 900,000 700,000 500,000



78

At a sale, the cost of each tie was reduced by 20 percent and the cost of each belt was reduced by 30 percent.

Column A	Column B
The percent reduction on the total cost of	25%
1 tie and 2 belts	



When the positive integer n is divided by 7, the quotient is q and the remainder is 4. When 2n is divided by 7, the remainder is 1 and the quotient, in terms of q, is

> \bigcirc 2q + 1 \bigcirc 2q + 2



 Column A
 Column B

 100,210 × 90,021
 100,021 × 90,210



81

Both soup $\mathcal S$ and soup $\mathcal T$ contain polyunsaturated fat, and each contains more saturated fat than polyunsaturated fat. Soup $\mathcal T$ contains 2 more grams of saturated fat and 2 more grams of polyunsaturated fat per serving than soup $\mathcal S$.

Column A

The ratio of the amount of saturated fat to the amount of polyunsaturated fat in soup \mathcal{S}

Column B

The ratio of the amount of saturated fat to the amount of polyunsaturated fat in soup T



WEATHER FORECAST FOR NOVEMBER 24

Sunrise: 6:53 in the morning
Sunset: 4:32 in the afternoon
Expected hours of sunshine: 70% of
maximum possible sunshine hours

According to the weather forecast above, approximately how many hours of sunshine are expected on November 24?

 \bigcirc 5 $\frac{1}{2}$

 \bigcirc 6 $\frac{3}{7}$

 $\supset 7\frac{1}{2}$

 \bigcirc 8 $\frac{1}{2}$

 \bigcirc 9 $\frac{3}{2}$

If $\frac{N}{2}$ and $\frac{M}{5}$ are both integers, which of the following expressions must also be an integer?

$$\bigcirc \frac{N+M}{7}$$

$$\bigcirc \frac{(N)(M)}{7}$$

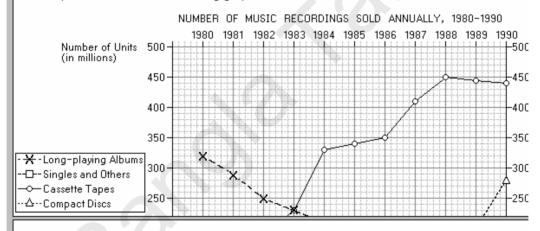
$$\bigcirc \frac{\left(\frac{N}{2}\right) + \left(\frac{M}{5}\right)}{2}$$

$$\bigcirc \frac{N+M}{10}$$

$$\bigcirc \frac{(N)(M)}{10}$$

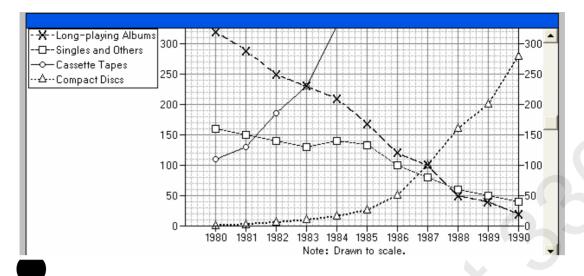
84

These questions refer to the following graph.



If the total value of sales of long-playing albums in 1985 was \$1,280 million, then the average (arithmetic mean) selling price of a long-playing album that year was closest to

- \$6.00
- \$6.50
- \$7.00
- \$7.50
- \$8.00



85

The operation \odot is defined for all real numbers xand y by the equation $x \odot y = x^2 + y^2 - xy$. Each of the following must be true EXCEPT

$$\bigcirc \chi \odot \chi = \chi^2$$

$$\bigcirc x \odot y = y \odot x$$

$$\bigcirc x \odot 0 = x^2$$

$$\bigcirc$$
 $x \odot y = (-x) \odot (-y)$



These questions refer to the following table.

LABOR FORCE IN SELECTED REGIONS AND IN SELECTED COUNTRIES WITHIN THOSE REGIONS-1985, 1990, AND 2000 (PROJECTED) (numbers in thousands)

			Change from 1985 to 1990		Projected Change from 1990 to 2000		
	1985	1990	2000 (projected)		Percent		Percent
World		2,363,547 135,438		199,903 5,846	9.2% 4.5	388,977 11,123	16.5% 8.2
Canada United States		13,360 122,005		637 5,205	5.0 4.5	1,101 10,012	8.2 8.2
Caribbean	12,287	13,813	16,732	1,526	12.4	2,919	21.1
Latin America Central America		158,285 40,007		18,036 5,821	12.9 17.0	41,674 13,624	26.3 34.1
Europe		231,702 59,336	238,186 62,946	5,329 1,300	2.4 2.2	6,484 3,610	2.8 6.1

From 1990 to 2000, the projected gain in the number of people in the United States labor force is approximately what percent of the projected gain for Asia?

48%
24%
17%

World	. 2,163,644	2,363,547	2,752,524	199,903	9.2%	388,977	16.5%
North America	. 129,592	135,438	146,561	5,846	4.5	11,123	8.2
Canada	. 12,723	13,360	14,461	637	5.0	1,101	8.2
United States	. 116,800	122,005	132,017	5,205	4.5	10,012	8.2
Caribbean	. 12,287	13,813	16,732	1,526	12.4	2,919	21.1
Latin America	. 140,249	158,285	199,959	18,036	12.9	41,674	26.3
Central America	. 34,186	40,007	53,631	5,821	17.0	13,624	34.1
Europe	. 226,373	231,702	238,186	5,329	2.4	6,484	2.8
Eastern Europe	. 58,036	59,336	62,946	1,300	2.2	3,610	6.1
Northern Europe	. 40,596	41,363	42,226	767	1.9	863	2.1
Southern Europe.	. 56,888	59,019	61,742	2,131	3.7	2,723	4.6
Western Europe.	. 70,852	71,984	71,272	1,132	1.6	(712)	-1.0
Asia	. 1,292,138	1,436,522	1,680,559	144,384	11.2	244,037	17.0
China	. 617,906	679,900	760,917	61,994	10.0	81,017	11.9
Japan	. 59,772	62,202	64,352	2,430	4.1	2,150	3.5
Source: International Labor Office Economically Active Population Estimates							

Source: International Labor Office, Economically Active Population Estimates and Projections, 1950-2025



 $\mathcal T$ is no more than 20 percent greater than the integer x, and $\mathcal T$ is no smaller than a number 20 percent less than the integer x. If $\mathcal T=60$, which of the following indicates the smallest possible interval for x?

 $\bigcirc 40 \le x \le 80$ $\bigcirc 48 \le x \le 75$

 $\bigcirc 40 \le x \le 76$ $\bigcirc 50 \le x \le 78$

 \bigcirc 50 $\leq x \leq$ 75



The average (arithmetic mean) of w, x, and y is 9.

Column A	Column B
The average (arithmetic mean) of $2w - y$, $3x + 6$, and $3y - x$	20

Rack A holds 80 pairs of slacks with prices ranging from \$12 to \$15 a pair, and rack B holds 60 pairs of slacks with prices ranging from \$13 to \$18 a pair. If all the slacks are sold, what is the greatest amount by which the revenue from the sale of slacks on rack A could possibly exceed the revenue from the sale of slacks on rack B?

\$430 \$412 \$122 \$120 \$120

90

Column A

Column B

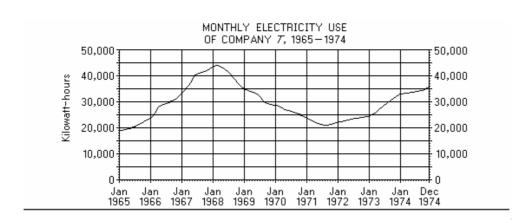
 $(2x + 3y)^2$

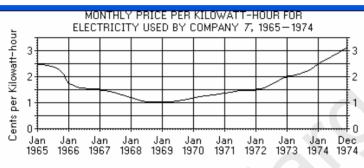
 $4x^2 + 6xy + 9y^2$

91

If 72.42 = $k\left(24 + \frac{n}{100}\right)$, where k and n are positive

integers and n < 100, then k + n =





Note: The graphs are drawn to scale; smooth curves have been drawn through the monthly data points.

In how many of the ten years from 1965 through 1974 was the electricity use of Company \mathcal{T} between 25,000 and 30,000 kilowatt-hours for at least one month?

O None
One

C Two

C Three

C Four

93

Approximately how many kilowatt-hours of electricity did Company $\mathcal T$ use during the entire year of 1971?

190,000

210,000

230,000

250,000

270,000

Which of the following fractions is equal to the repeating decimal 0.3636...?

 $\bigcirc \frac{1}{275}$ $\bigcirc \frac{2}{55}$

95

I hese questions refer to the following table.

POPULATION DATA FOR TEN SELECTED STATES IN 1980 AND 1987

	Population (i	n thousands)	Percent Change in	Population Per	
State	1980	1987	Population, 1980 – 1987	Square Mile in 1987	
A	23,668	27,663	16.9	177	
В	17,558	17,825	1.5	372	
C	14,229	16,789	18.0	64	
D	9,746	12,023	23.4	222	
E F	11,864	11,936	0.6	266	
F	11,427	11,582	1.4	208	
G	10,798	10,784	-0.1	263	
H	9,262	9,200	-0.7	162	
I	7,365	7,672	4.2	1,027	
J	5,882	6,413	9.0	131	

If the population of State I had increased by the same amount each year from 1980 to 1988, approximately what would the population of State I have been in 1988?

7,628,000 7,676,000

7,698,000

7,710,000 7,716,000

96

x + y = 1

Column A

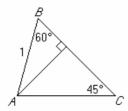
Column B

 χy

0

A political poll showed that 80 polled said they would vote for those who said they would vote 70 percent actually voted for A did not say they would vote for actually voted for P. What per voted for P?	proposition P. Of e for proposition P, P, and of those who P, 20 percent
56%60%64%76%90%	
98	
For which of the following greatest?	values of ν is $\nu + \frac{1}{\nu}$
0 0 0 0 0 20	0.002 0.005 2 5 00
99	
What percent of the integers inclusive, have all three digits	
 1% 2% 3% 4% 5% 	
100	
The average (arithmetic meal of <i>m</i> men is 70 inches, and the a group of <i>f</i> women is 64 inches, are combined, the average h	he average height for ches. When the groups
Column A	Column B
m	f
101	

GRE Bangla Target 330+ 01873753569



Column A

Column B

The length of line segment BC





102

Diane completed each of her exercise sets in 25 seconds and rested for 55 seconds between the exercise sets. What is the ratio of the amount of time it took her to complete an exercise set to the amount of time she rested between the sets?

0 5:6 0 5:1 0 6:1 0 11:5



103

If n is an integer, then the units digit of n^2 CANNOT be





The decorating committee for a dance plans to fringe the 3-inch-wide end of a streamer by making small cuts every $\frac{1}{16}$ inch. How many cuts must be made to fringe the end?





These questions refer to the following graphs. TYPE OF WORK SCHEDULING IN 300 SURVEYED COMPANIES Distribution of Companies by Number of Employees More than 1,000 1,000 500 25% Percent of Companies Not Offering Flexible Scheduling and Percent Offering Any of Five Flexible-Scheduling Options No Flexible Scheduling Flextime* 42% Part-time Work **1**36% Job Sharing 18% Compressed Workweek Work at Home *Flextime is the option given to full-time employees to vary the time that the workday begins and ends. 106 These questions refer to the following graphs. TYPE OF WORK SCHEDULING IN 300 SURVEYED COMPANIES Distribution of Companies by Number of Employees More than 1,000 500-1,000 500 Percent of Companies Not Offering Flexible Scheduling and Percent Offering Any of Five Flexible-Scheduling Options No Flexible Scheduling Flextime* 42% Part-time Work Job Sharing **■**18% Compressed Workweek Work at Home *Flextime is the option given to full-time employees to vary the time that the workday begins and ends. 107 0Column A Column B

What is the greatest number of the companies surveyed that could have offered both the compressedworkweek option and the work-athome option?

If $\frac{1}{5}$ of the companies with fewer than 500 employees and $\frac{1}{10}$ of those with more than 1,000 employees offered the job-sharing option, what fraction of the companies with 500-1,000 employees offered this option?

The greatest value of p(1 - p)



The total cost of \$400 for renting a bus was divided equally among a group of N people.

Column A

Column B

The percent reduction in the cost for each person in that group if the total cost of \$400 had been divided equally among 2N people

40 percent



109

A thin strip of binding 30 feet long just fits around the perimeter of a rectangular rug that covers an area of 54 square feet.

Column A

Column B

The length of the longer side of the rug

10 feet



110

If revenues of \$196,000 from division A of Company X represent 28 percent of the total revenues of Company X for the year, what were the total revenues of Company X for the year?

\$141,100

\$272,000

\$413,300

\$596,100

\$700,000

I hese questions refer to the following graph.

SELECTED CATEGORIES OF THE UNITED STATES FEDERAL BUDGET, 1993 (in billions of dollars)



Civilian Programs \$33.5 Infrastructure \$29.6 Education \$32.3

Total: \$633.1 billion
One billion = 1,000,000,000
Note: Drawn to scale.

If $\frac{1}{3}$ of the amount budgeted for the environment was allocated to national parks, approximately how many billion dollars were allocated to other environmental areas?

O 2.3

O 3.3

O 3.8

O 4.6

5.2



In an xy-coordinate system, if line k intersects the y-axis at (0, 6) and has a slope of -3, then k intersects the x-axis at

 \bigcirc (-2 0)

 $\bigcirc (-\frac{1}{2}, 0)$

 $\bigcirc (\frac{1}{2}, 0)$

(2, 0)

 \bigcirc (3, 0)