Name	: ***		100					• •
51	tions 1 through 4 re	efer to the follo	wing:	e de la companya de	× .			-
Joe re	Don, Kelly, and Bar ented the costumes iends, who were dr	for Clyde and	Cher, but not f	y. They chose for his own cost	to go as the famous d ume. Kelly went as S	luos, Sonny and Conny. Barbara roc	Cher and Bonr ie to the party	ie and Clyde with two of
1)	Based on the infor	rmation above,	whose costum	es did Joe rent?	?			
2)	Based on the infor	rmation above,	what costume	did Don wear?				
3)	Based on the info	rmation above,	who went to th	ne party dresse	d as Bonnie?			40
4)	Based on the info	rmation above,	who did Barba	ra ride to the pa	arty with?	9		
5)	In a junior college 300 students pass	of 1100 freshmed both course	an students, 7	00 students pas students did <i>no</i>	sed calculus, 500 stu t pass either calculus	dents passed Eng or English comp	glish composit	ion, and
6)	the nearest tenth,	what percent o	f the total num		udents take music, an take neither art nor r		ke both music	and art. To
Mari bask	etions 7 through 10 e, Betsy, Wayne, a etball. Betsy bough pping with the two f	nd Mike bough nt the DVD. Wa	t gifts for their	he CD and the	ay party. They bough basketball, neither of	nt a DVD, a CD, a Swhich was the gi	computer gam ft he bought. I	e, and a Mike went
7)	Based on the info		X77		opping with?			
8)	Based on the info	rmation above,	who bought t	he basketball?	8			
9)	Based on the info	rmation above,	what gift did	Wayne bring to	the party?			
10)	Based on the info	rmation above,	for which frien	nds did Wayne	wrap up gifts?			
11)	At a recent gradu and a total of 40 s	ation ceremony tudents did no	, 15 girls grad t graduate witl	uated with disti	nction and 20 boys d hat was the total num	lid not. If there we ber of students a	t the graduation	he ceremony n ceremony?
7	A) 70		B) 75	14	C) 68		D) 60	
							** - * - * - * - * - * - * - * - * - *	

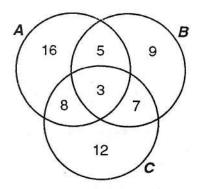
- 12) Solve using logical reasoning:
  - · Allen, Betty, and Charlie won first place, second place, and third place in a spelling bee contest.
  - · Allen is a friend of the first-place winner.
  - · Charlie is on the same golf league as the second-place winner's sister.
  - · Betty is an only child.
  - · Allen and Charlie don't know each other.

Based on the information above, which contestant is Allen's friend?

- 13) Of 78 people, 35 people exercise by swimming, 14 people exercise by jogging, and 11 people exercise by both swimming and jogging. How many people do *not* exercise by either swimming or jogging?
- 14) Solve using logical reasoning:
  - · Geoffrey, Tammy, and Eileen went on vacation to Georgia, California, and France.
  - · Neither Geoffrey nor Eileen have ever been out of the United States.
  - · Geoffrey is a neighbor of the person who spent a lot of time on the beach at the Pacific Ocean.

Based on the information above, where did each person go on vacation?

15) The accompanying Venn diagram shows the number of types of fruit produced by fruit growers in Plum County. All the growers in circle A produce apples. All the growers in circle B produce blueberries. All the growers in circle C produce strawberries.



To nearest tenth of a percent, what percentage of growers produce exactly two types of fruit?

- 16) In a survey of 150 college students, 65 students eat breakfast, 52 students eat lunch, and 12 students eat both. How many students surveyed do not eat either meal?
  - A) 40

B) 45

C) 33

- D) 53
- 17) A school district offers AP Calculus and AP English courses to the senior class. A survey of 250 students in the senior class showed: 100 students are enrolled in AP English only, 80 students enrolled in AP Calculus only, and 40 students not enrolled in either course.

Of the 250 students, how many are enrolled in both AP Calculus and AP English?

- 18) In a freshman class of 100 students, 42 students play on a sports team, 34 students participate in the school musical, and 6 students participate in both activities. How many students in the class are not involved in either activity?
  - A) 24

B) 36

C) 30

D) 28

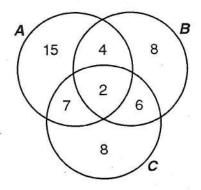
- 19) Solve using logical reasoning:
  - · Wayne, Bill, and Corey commute to work by walking, by bus, and by car.
  - · Wayne and Corey leave 15 minutes later than the person who walks.
  - · Corey and the person who rides the bus generally arrive at work at approximently the same time.

Based on the information above, how does each person commute to work?

- 20) Solve using logical reasoning:
  - · Aaron, Ben, and Carl won first place, second place, and third place in a 15 km race.
  - · Aaron and the person who finished in second-place trained together.
  - · Aaron, who had won first place in last year's race, did not do as well in this year's race.
  - · Ben and Aaron have never met.

Who won first place, second place, and third place?

21) The accompanying Venn diagram shows the number of students who play spring sports. All students in circle A play baseball. All in circle B run track. All in circle C play golf.

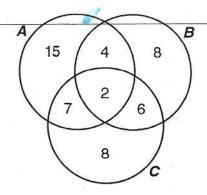


What percentage of the students participate in either golf or baseball?

- 22) Solve using logical reasoning:
  - · Cathy, Don, Edgar, and Fred are a chemist, a dentist, an engineer, and a fireman.
  - · No one has a job that begins with the same letter as his or her first name.
  - · Fred, Don, and the chemist commute together to work.
  - · Fred and the engineer are friends.
  - · Cathy was rescued by the fireman when her apartment caught fire last year.

Based on the information above, who performs what job?

23) The accompanying Venn diagram shows the number of students who participate in after school clubs. All the students in circle A belong to the chess club. All the students in circle B are in science club. All the students in circle C belong to the art club.



What percentage of the students participate in exactly one club?

- 24) A used car dealer has 255 cars on his lot. 75 of the cars have tinted glass, 40 of the cars have keyless entry, and 25 of the cars have both tinted glass and keyless entry. How many cars have neither tinted glass nor keyless entry?
- 25) In a house of 12 rooms, 5 rooms have carpeted floors, 4 rooms have hardwood floors, and 1 room has both carpet and hardwood floors. How many rooms have neither carpet nor hardwood floors?

Barbara's and Don's Cher Joe 4) Kelly and Don 5) 200 36.5% 7) Marie and Betsy Mike 8) 9) computer game 10) Marie and Mike 11) C 12) Betty 13) Geoffrey went to Georgia, Tammy went to France, and Eileen went to California. 33.3% 17) 30 18) C 19) Wayne takes the bus, Bill walks, and Corey drives the car Ben won first place, Carl won second place, and Aaron won third place 20) 21) 84% Cathy is the engineer, Don is the fireman, Edgar is the chemist, and Fred is the dentist 22) 23) 62% 165 24)