AP Stats

Problems using the Addition Rule (5.2 HW)

1. A bag contains marbles: 18 rechoosing:	ed, 12 green, 15 blue	, 12 white, and 7 black. A marble is chosen. Find the probabilities of
a) red	b) black or white	c) red or green
d) red, green or blue	e) not white	f) not white or black
commercials, the following pro	grams are being sho	stations are showing commercials. Of the stations not showing wn: 18 sports, 25 movies, 7 news shows, 13 comedy programs, 12). A station is chosen at random: Find the following probabilities:
a) choosing a news show	b)	choosing a commercial
·		
c) a comedy or drama	d)	sports, movie or news
e) not a sales program	f) i	either sports or a movie
3. A pet store has 25 pets, 16 d at random. Find the following p		e dogs, 13 are puppies and of the cats 6 are kittens. A pet is chosen
a) a dog	b) a cat	c) a puppy
d) a kitten	e) a puppy	or a kitten d) neither a puppy or kitten

4. A rental car lot has 49 America foreign cars, 15 are white. A car is					5 of them are white and of the		
a) American	b) foreign			c) American or foreign			
d) not white	e) American or white		f) Foreign or not white				
5. A pizza shop has two sizes of p with toppings. Of the 59 plain piz at random. Find the following pro	zas, 19 were smal	nall. On a cert I and of the 7	ain day, a p 2 pizzas wit	h toppings, 42	were large. A pizza is chosen		
a) large	b) small			c) with to	c) with toppings		
d) plain	e) large plain			f) small with toppings			
g) small or plain	h) large or with toppings		i) small	or large			
6. A computer store stocks the c	omputers accordi	ng to the follo	wing chart:	: Mac			
	Laptop	20	25	12			
A computer is chosen at randon	Desktop n. Find the probabi	19 lity of choosi	32 ng	8			
a) a Mac	b) a Dell or HP		c) a laptop				
d) a Mac laptop	e) a Mac or laptop			f) a Dell or desktop			

5.3 WS #2

Picking Two Sneezers

This is a two-way table that classified 40 students according to their gender and whether they had allergies.

	Female	Male	Total
Allergies	10	8	18
No Allergies	13	9	22
Total	23	17	40

Suppose we chose 2 students at random.

a. Draw a tree diagram or chart that shows the sample space for this chance process.

- b. Find the probability that both students selected suffer from allergies.
- c. Find the probability that neither student selected suffers from allergies.
- d. Find the probability that at least one student selected suffers from allergies.
- e. Find the probability that only one student selected suffers from allergies.