1. You are going to get a Sundae at the ice cream shop. You know that you are going to get one scoop of vanilla and some toppings. The following toppings are available: Hot Fudge, Strawberry, Butterscotch, and Whipped Cream.

You can get 1 topping, 2 toppings, 3 toppings, or all 4 toppings.

How many different Sundaes are possible?

#2 is on the back

2. Ted, Ken, Allison, and Janie (two married couples) each have a favorite sport: Running, Swimming, Biking, and Golf. Use the following clues to determine who likes which sport.
a. Ted hates golf.
b. Ken wouldn't run around the block if he didn't have to and neither would his wife.
c. Each woman's favorite is featured in a triathlon.
d. Allison bought her husband a new bike for his birthday to use in his favorite sport.

(1) H = HOT FUDGE   S = STRAWBERRY   B = BUTTERSCOTCH   w = whipped cream

1 topping	2 topping	3 topping	4 topping
H	HS SB Bw	HSB SBW	HSBW
S	HB Sw	HSW	
B	HW	HBW	
W			
4	+ 6	+ 4	+ 1 = 15

15 TOTAL   1, 2, 3, or 4 TOPPING SUNDAE'S

(2)

married

	Run	Swim	Bike	Golf
TED	X	X	O^d	X^a
KEN	X^b	X	X	O
ALLISON	O	X	X^d	X^c
JANIE	X	O	X^d	X^c

married

TED BIKES^A

KEN GOLFS^B

ALLISON RUNS

JANIE SWIMS