

FAVORITE SPORT

	<u>BASKETBALL</u>	<u>SOCCER</u>	<u>FOOTBALL</u>	<u>BASEBALL/ SOFTBALL</u>	TOTAL
<u>BOY</u>	23	19	41	28	111
<u>GIRL</u>	20	34	17	35	106
TOTAL	43	53	58	63	217

1. $P(\text{boy})$
2. $P(\text{football})$
3. $P(\text{girl or soccer})$
4. $P(\text{boy and football})$
5. $P(\text{basketball or baseball/softball})$
6. $P(\text{boy or basketball})$

NUMBER OF CARS

	<u>Age 18-35</u>	<u>Age 36-60</u>	TOTAL
<u>0 cars</u>	13	8	21
<u>1 car</u>	42	38	80
<u>2+ cars</u>	9	20	29
TOTAL	64	66	130

1. $P(1 \text{ car})$
2. $P(\text{age 36-60})$
2. $P(\text{age 18-35 or 0 cars})$
4. $P(\text{age 18-35 and 2+ cars})$
5. $P(1 \text{ car or 2+ cars})$
6. $P(\text{age 36-60 or 1 car})$

**FINAL QUESTION: WHICH HAS A HIGHER PROBABILITY?— $P(\text{girl and football})$ or $P(\text{age 36-60 and 0 cars})$. You must prove your answer with math.*