The two-way table below shows sport preferences for surveyed high school students and middle school students.

	Soccer	Tennis	Basketball	Football	Total
HS Students	30	30		40	120
MS Students	20		20		80
Total		50	40	60	

1.   Finish the table by filling in the blank boxes.

2.   Could the results of the survey have been represented if the row and column categories were reversed?

3.   How many high school students prefer tennis?

4.   What is the joint relative frequency of middle school students who prefer soccer?

5.   What is the joint relative frequency of basketball players that are high school students?

6.   What is the joint relative frequency of middle school football players?

7.   Is the 120 listed in the last column a joint frequency or marginal frequency?

8.   Complete the two-way relative frequency table below using the data above.

	Soccer	Tennis	Basketball	Football	Total
HS Students					
MS Students					
Total					

Gerry conducted a survey to determine favorite ice cream flavors by visiting the neighborhood ice cream shop. The results are listed below.

	Rocky Road	Caramel Crunch	Macho Mocha	Strawberry Swirl	Chunky Chocolate	Total
Adults	12	8	12		12	
Children		2		1		
Total	30		12	4	30	

9. Finish the table by filling in the empty boxes.

11. Does the box with a 2 under caramel crunch represent a joint or marginal frequency?

12. How many people chose Rocky Road as their favorite?

13. What is the joint relative frequency of children preferring Chunky Chocolate?

14. What is the joint relative frequency of people who prefer Macho Mocha that are adults?

15. What is the marginal relative frequency of adults surveyed?

16. What is the joint relative frequency of adults who prefer Strawberry Swirl?

17. Complete the two-way relative frequency table below using the data above.

	Rocky Road	Caramel Crunch	Macho Mocha	Strawberry Swirl	Chunky Chocolate	Total
Adults						
Children						
Total						