

You go to a dance and help clean up afterwards. To help, you collect the soda cans, Coca-Cola and Sprite, and organize them. Some cans were on the table and some were in the garbage. Seventy-two total cans were found. 42 total cans were found in the garbage and fifty total cans were Coca-Cola. 14 Sprite cans were found on the table. Complete the two-way frequency chart AND a relative frequency chart

Two Way Frequency

	Coca-Cola	Sprite	Total
Table			
Garbage			
Total			

Relative Frequency

	Coca-Cola	Sprite	Total
Table			
Garbage			
Total			

The students in a seaside school are to have extra swimming lessons if they cannot swim. The table below gives information about the students in grades 7, 8 and 9.

Two Way Frequency

	Can swim	Cannot swim	Total
Grade 7	120	60	
Grade 8	168	11	
Grade 9	172	3	
Total			

Relative Frequency

	Can swim	Cannot swim	Total
Grade 7			
Grade 8			
Grade 9			
Total			

- Complete the table
- How many students need swimming lessons?
- How many students are there in 8th grade?
- How many of the 7th grade students cannot swim?
- How many students in grades 7 and 8 can swim?
- How many students are there altogether in grades 7, 8, and 9?
- Create a two-way relative frequency table for the above data.
- What is the relative frequency of students who are in 8th grade and cannot swim?
- What percentage of 9th grade students can swim?
- What percentage of students cannot swim?
- What percentage of students are 9th graders?

Put Solutions Here

b. _____

c. _____

d. _____

e. _____

f. _____

i. _____

h. _____

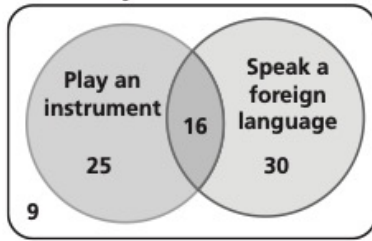
i. _____

j. _____

k. _____

The Venn diagram shows the results of a survey in which 80 students were asked whether they play a musical instrument and whether they speak a foreign language. Use the Venn diagram to complete the two-way table. Then use the two-way table to answer each question.

Survey of 80 Students



	Play an Instrument	Do Not Play an Instrument	Total
Speak a Foreign Language			
Do Not Speak a Foreign Language			
Total			

- How many students play an instrument?
- How many students speak a foreign language?
- How many students play an instrument and speak a foreign language?
- How many students do not play an instrument and do not speak a foreign language?
- How many students play an instrument and do not speak a foreign language?

Hamster Election Results 2020 Use the voter data in the table below to answer the questions that follow.

	McWhiskers	Twitchnose	Liam	Total
Furr-Ball City	34			167
Squiggle Town		47	23	
Vermin Village	52	45	51	
Total	164	135		

M = Voted to for McWhiskers T = Voted to for Twitchnose L = Voted to for Liam
 F = Lives in Furr-Ball City S = Lives in Squiggle Town V = Lives in Vermin Village

Find the Probabilities of the following events. State your answers as Fractions and Percents.

$$P(S) = \qquad P(F \cap M) = \qquad P(F|L) =$$

$$P(\bar{V}) = \qquad P(T \cup L) = \qquad P(L|F) =$$

$$P(T) =$$