

**2-1****Study Guide and Intervention****Frequency Tables**

**Statistics** involves collecting, organizing, analyzing, and presenting data. **Data** are pieces of information and are usually numbers. You can organize data by making a frequency table. A **frequency table** shows the number of times each piece of data appears.

The parts of a frequency table:

Scale: lets you record all of the data; includes the least and the greatest number

Interval: separates the scale into equal parts

Tally marks: lets you record a mark each time a piece of data appears

Frequency: gives the sum of the tally marks for each category

**EXAMPLE 1** **SCHOOL** Vinnie recorded his scores on this month's math quizzes. Make a frequency table of the data. Which score did Vinnie get most often?

My Quiz Scores			
9	8	9	5
5	9	6	2
9	8	9	4

**Step 1** Choose a scale and interval. A scale that includes all the data is 0 to 10. An interval that separates the scale into equal parts is 2.

**Step 2** Draw a table with three columns and label the columns.

**Step 3** List the intervals, tally the data, and add the tallies.

Since the quiz score 9 has the greatest number in the frequency column, Vinnie scored 9 most often.

My Quiz Scores		
Score	Tally	Frequency
1–2		1
3–4		1
5–6		3
7–8		2
9–10		5

**EXERCISES**

**MUSIC** Use the table that shows the number of hours the band members practiced in a week.

1. Make a frequency table for the data.
2. Which number of hours practicing is most common?
3. How many band members practiced more than 4 hours a week?

Hours Spent Practicing				
3	4	3	5	2
2	3	4	3	1
3	2	1	5	2
4	1	3	2	1

**2-1****Practice: Skills*****Frequency Tables*****Make a frequency table for each set of data.****1. Class Quiz Scores**

4	10	8
6	9	9
8	7	7
7	5	8
8	8	10
9	6	8

**2. Students' Eye Colors**

R	G	R	L	H
L	L	V	G	R
R	R	L	R	R
R	H	L	R	H
H	R	R	G	R

L = Blue                      R = Brown  
 G = Green                  H = Hazel  
 V = Violet

**MOVIES Use the frequency table shown.****3.** Describe the scale.**4.** Describe the interval.**5.** What is the most common gross sales category?

<b>All-Time Top 27 Kids' Films</b>		
<b>Gross Sales (millions \$)</b>	<b>Tally</b>	<b>Frequency</b>
100–149		14
150–199		5
200–249		2
250–299		4
300–349		2

**6.** How many films grossed more than \$299 million?