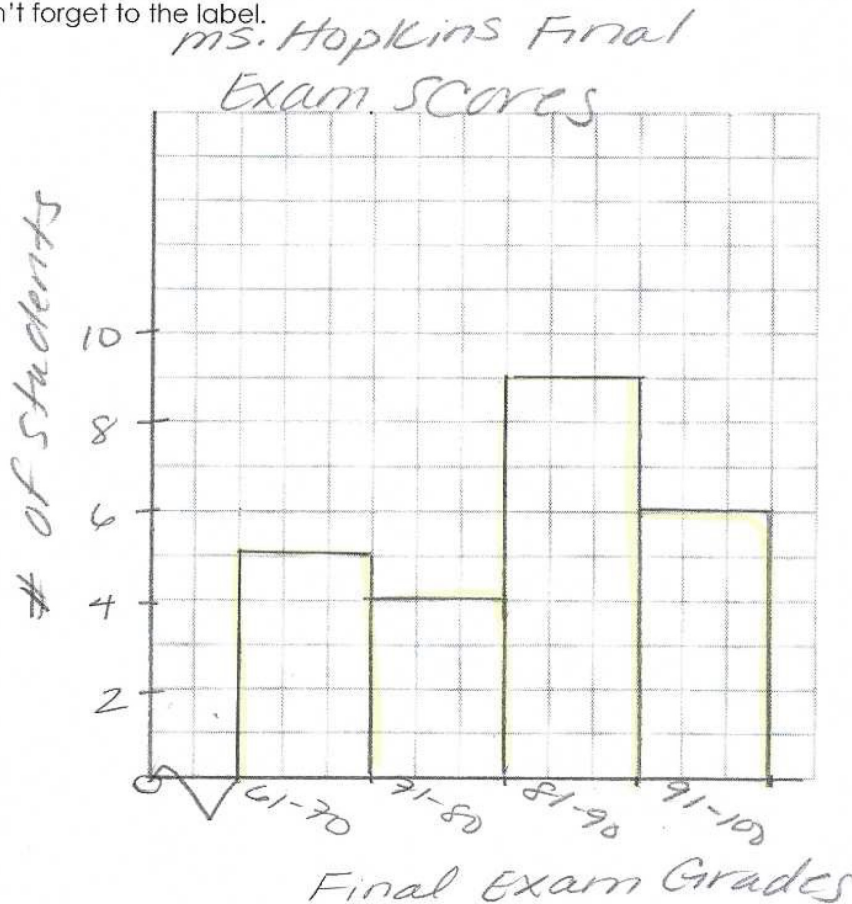# CLASSWORK: TWO-WAY TABLES & STATS REVIEW

Name: _____Key_____   May 8   glue on page 39

1. Ms. Hopkins recorded her students' final exam scores in the frequency table below.

Interval	Tally	Frequency
61–70	||||/	5
71–80	||||	4
81–90	||||/ ||||	9
91–100	||||/		6

On the grid below, construct a frequency histogram based on the table. Don't forget to the label.

Ms. Hopkins Final Exam Scores

# of students

Final Exam Grades

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.

2. Complete the table.

	Can swim	Cannot swim	Total
Grade 7	120	60	180
Grade 8	168	11	179
Grade 9	172	3	175
Total	460	74	534

3. How many students need swimming lessons? __74__

4. How many students are there in 8th grade? __179__

5. How many of the 7th grade students cannot swim? __60__

6. How many students in grades 7 and 8 can swim? __288__

7. How many students are there altogether in grades 7, 8, and 9? __534__

8. Now create a two-way relative frequency table.

	Can swim	Cannot swim	Total
Grade 7	$\frac{120}{534}$	$\frac{60}{534}$	= $\frac{180}{534}$
Grade 8	$\frac{168}{534}$	$\frac{11}{534}$	= $\frac{179}{534}$
Grade 9	$\frac{172}{534}$	$\frac{3}{534}$	= $\frac{175}{534}$
Total	$\frac{460}{534}$	$\frac{74}{534}$	= $\frac{534}{534}$

9. What is the relative frequency of students who are in 8th grade and cannot swim? $\frac{11}{534}$

10. What percentage of 9th grade students can swim? __32%__

11. What percentage of students cannot swim? __14%__

12. What percentage of students are 9th graders? __33%__

13. Twenty students were surveyed about the number of days they played outside in one week. The results of this survey are shown below.

$$\{6, 5, 4, 3, 0, 7, 1, 5, 4, 4, 3, 2, 2, 3, 2, 4, 3, 4, 0, 7\}$$

Complete the frequency table below for these data.

Interval	Tally	Frequency
0-1	$\mathcal{I}\,\text{II}$	3
2-3	HHT II	7
4-5	HHT II	7
6-7	III	3

Complete the cumulative frequency table below using these data.

Interval	Cumulative Frequency
0-1	3
0-3	10
0-5	17
0-7	20

On the grid below, create a cumulative frequency histogram based on the table you made.

# of days played outside in a week

# of days played outside