

U11 Day 5 Notes: Two-way Frequency Tables

S-ID.5: I can summarize categorical data for two categories in two-way frequency tables. I can interpret relative frequencies in the context of the data.

Example 1:

Find the missing numbers. Answer the questions below based on this table.

	Red	Yellow	Total
1 eye		2	
2 eyes			12
3 eyes	5	10	
Total	15	20	

- How many furbles have 3 eyes?
- How many furbles are red **and** have 2 eyes?
- How many furbles have either 2 eyes **or** 3 eyes?
- What percent of the total furbles are red?
- What percent of the red furbles have 1 eye?

2. A survey of 500 students at TGB was conducted to determine whether they knew how to swim.

- Half of the students surveyed were 9th graders.
- 25% of all students said they cannot swim.
- 80% of 10th graders know how to swim.

Complete the two-way frequency table to show the results of the survey.

	Can Swim	Cannot Swim	Total
Grade 9			
Grade 10			
Total			500

3. A survey of 1,000 students at TGB was conducted to determine their lunch selection.

- Half of the students surveyed were boys.
- 500 students ate pizza for lunch.
- 20% of all students ate a salad for lunch.
- 55% of boys preferred to eat pizza for lunch.
- 25% of girls preferred salad for lunch.

	Pizza	Chicken Sandwich	Salad	Total
Boys				
Girls				
Total				1000

4. The Two-Way Frequency table shows each student class and the performing art classes they are taking.

	Band	Choir	Guitar	Total
Freshman	15	107	38	160
Sophomores	9	88	67	164
Juniors	7	63	52	122
Seniors	5	60	32	97
Total	36	318	189	543

- How many Juniors took a performing arts class?
- What percent of Choir members were Juniors?
- What percent of Freshman performing arts students were in Guitar?

5. The Two-Way Frequency table shows the amount of cows and chickens Germans and French own.

- What animals did most rural Germans have?
- What percentage of Chicken owners were French?

	Cows	Chickens	Total
Germans	30	20	50
French	32	18	50
Total	62	38	100