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Staying Hydrated

Introduction to recognizing equivalent forms of percents, fractions, and decimals.

Calculations and estimations / Statistics and probability

Benchmark 2 / Grade 5

### **STAYING HYDRATED**

Task Materials:

15 hundreds grids per person

Task:

Percy, Bill, and Sarah kept track of how much water they drank each day for a week. Unfortunately when they met on Saturday to compare their data, they found they had each recorded it differently.

Percy said he drank  $\frac{1}{2}$  gallon on Monday,  $\frac{3}{10}$  gallon on Tuesday,  $\frac{3}{4}$  gallon on Wednesday,  $\frac{17}{20}$  gallon on Thursday and  $\frac{7}{10}$  gallon on Friday.

Bill reported that he drank 0.75 gallon on Monday, 0.4 gallon on Tuesday, 0.5 gallon on Wednesday, 0.65 gallon one Thursday, and 0.9 gallon on Friday.

Sarah's data showed she drank 30% of a gallon on Monday, 75% of a gallon on Tuesday, 68% of a gallon on Wednesday, 100% of a gallon on Thursday, and 25% of a gallon on Friday.

1. Make a chart to record the data.
2. Model the amounts each person drank.
3. Show and explain how you were able to compare the fractions, percentages, and decimals.
4. Show your thinking as you answer the following questions:
  - a. Who had the highest mean?
  - b. Who had the highest median?
  - c. Who had the highest range?
  - d. Find the overall mean, median, mode, and range for the amounts of water consumed.