

Problem Set

1. A game was played where ten tennis balls are tossed into a basket from a certain distance. The numbers of successful tosses for six students were 4, 1, 3, 2, 1, 7.
 - a. Draw a representation of the data using cubes where one cube represents one successful toss of a tennis ball into the basket.
 - b. Represent the original data set using a dot plot.
2. Find the mean number of successful tosses for this data set using the fair share method. For each step, show the cubes representation and the corresponding dot plot. Explain each step in words in the context of the problem. You may move more than one successful toss in a step, but be sure that your explanation is clear. You must show two or more steps.

Step Described in Words	Fair Share Cubes Representation	Dot Plot

3. The numbers of pockets in the clothes worn by four students to school today are 4, 1, 3, and 6. Paige produces the following cubes representation as she does the fair share process. Help her decide how to finish the process now that she has stacks of 3, 3, 3, and 5 cubes.



4. Suppose that the mean number of chocolate chips in 30 cookies is 14 chocolate chips.
- Interpret the mean number of chocolate chips in terms of fair share.
 - Describe the dot plot representation of the fair share mean of 14 chocolate chips in 30 cookies.
5. Suppose that the following are lengths (in millimeters) of radish seedlings grown in identical conditions for three days: 12 11 12 14 13 9 13 11 13 10 10 14 16 13 11.
- Find the mean length for these 15 radish seedlings.
 - Interpret the value from part (a) in terms of the fair share mean length.