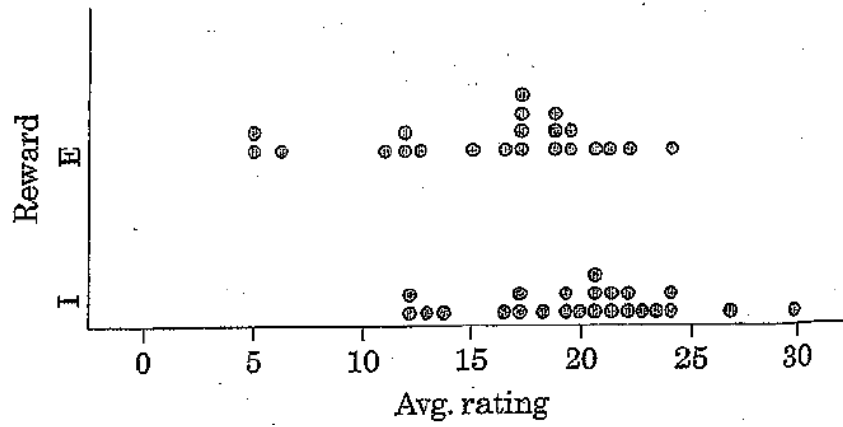


<p>Topic: Types of Studies</p>	<p>Things to Remember:</p> <ul style="list-style-type: none"> ✓ Observational Study – Gathering information by OBSERVING ✓ Experimental Study – Gathering information by using a TREATMENT
<p>Examples:</p>	
<p>1. Xavier wonders about the effects of listening to classical music while studying. He randomly assigns students to listen to classical music while they study and another group to study in a quiet room. What type of study is he performing?</p>	<p>2. Kayla wonders if athletes perform better in Math or Language Arts classes. She recruits 50 athletes from her school to take a basic test in each subject and compares results. What type of study is she performing?</p>
<p>3. Hunter wonders what cafeteria food high school students prefer. He goes around the lunch room during all 4 lunch periods and randomly asks 50 students in each what their preference is. What type of study is he performing?</p>	<p>4. Mrs. Brattebo wants to know if her dogs would bark less if they are placed in their kennels. One night she lets them stay out of the kennel and counts how many times her dogs bark that night. The next night, she places her dogs in their kennels and counts how many times her dogs bark. She compares the number of times the dogs bark from both nights.</p>
<p>Topic: Vocabulary</p>	<p>Things to Remember:</p> <ul style="list-style-type: none"> ✓ Individuals – The objects described by a set of data ✓ Variables – Any characteristic of an individual ✓ Quantitative – Variable that takes a numerical value and averaging makes sense ✓ Categorical – Variable that places an individual into one of several groups or categories ✓ Population – The entire group of individuals that we want to study ✓ Sample – A part of the population ✓ Census – A sample survey that attempts to include the ENTIRE population in the sample
<p>Examples:</p>	
<p>On the first day of school, Ms. Brattebo asked her 32 students various questions.</p>	
<p>5. What were the individuals in this SURVEY?</p>	<p>6. What was the sample in the SURVEY?</p>

Here's the data collected during this study:

Creativity



c) Analyze the data (what do you notice?):

d) Interpret the results (draw a conclusion):