

Name _____ Date _____

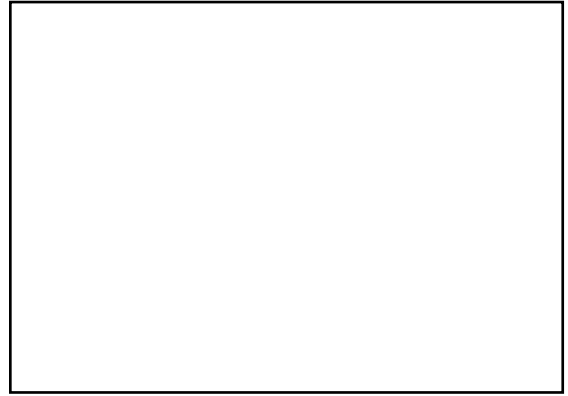
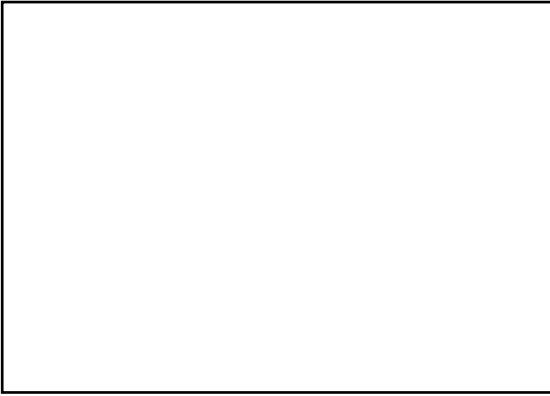
Partner's Name _____

Full of Beans

Picture

**Draw a picture of the experiment.
Use letters to show the variables.**

Draw a picture of each kind of bean.



1. What are the variables in the experiment? _____

2. What variable in the experiment does not change?

Data Table

Work with your group. Fill in the data table.

3. The variable whose values you can fill in before you do the experiment is

_____ .

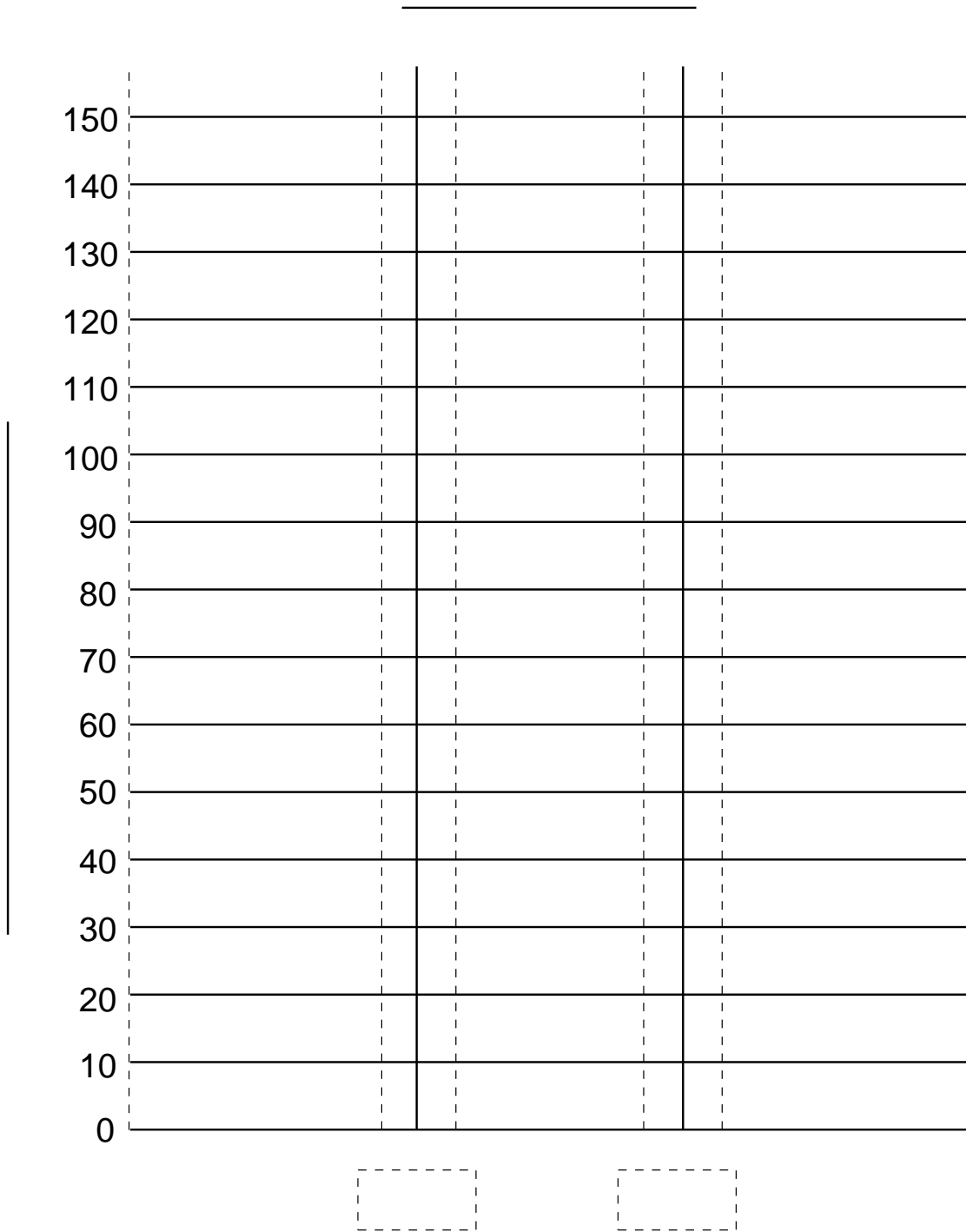
This is called the manipulated variable.

Table I

T Type of Bean	N Number of _____			
	Trial 1	Trial 2	Trial 3	Average

Graph

Make a bar graph of your data.
Label each axis with the correct letter.



Comprehension Questions

4. Your cup held more of which kind of bean? _____

5. How many more were there? _____

6. Which kind of bean was bigger? _____

7. Will a cup always hold more small beans than big beans? _____

Explain. _____

8. Look at the data table another team made.

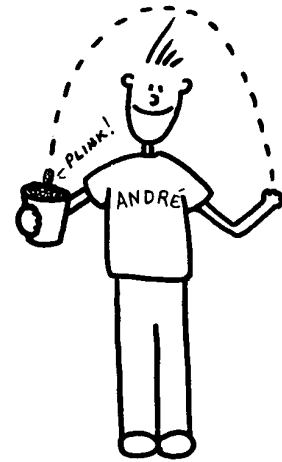
8a. Did they get the same numbers as you did? _____

8b. If they did get different numbers, discuss why.

8c. Who was right, your group or the other group?

9. André used pinto beans for his experiment.
He found that 35 beans filled the cup.

About how many pinto beans fill two cups?



10. Victor had 29 beans in his jar. Mary had 41 beans in her jar.

10a. Who had more beans? _____

10b. How many more? _____

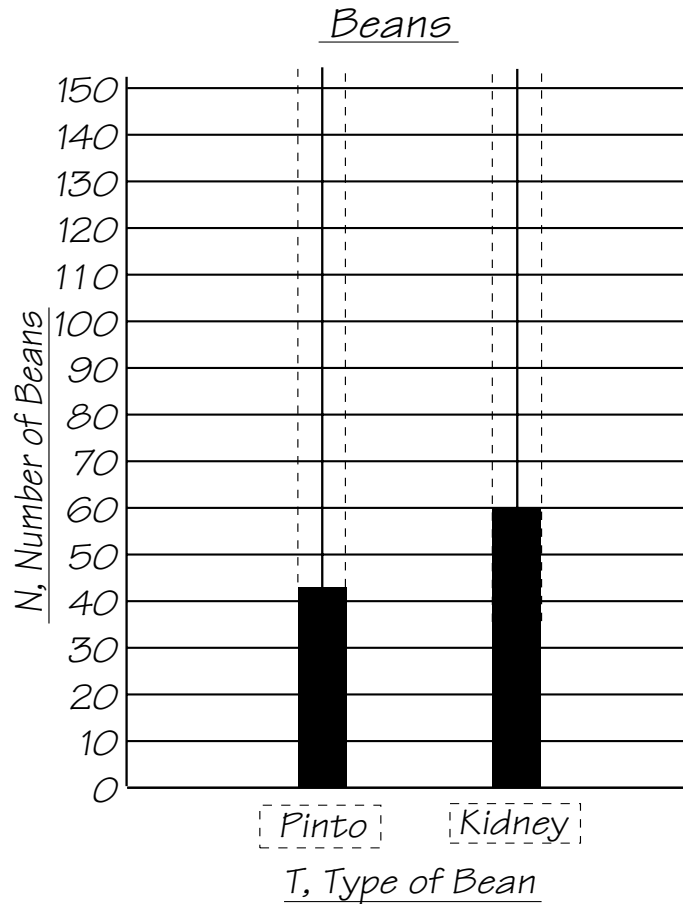
10c. Write a number sentence for this problem.

11. Michelle used 65 lima beans to fill 3 cups.
About how many lima beans are in one cup?



Name _____

12. Maria and José did the Full of Beans experiment.



12a. About how many pinto beans were in the cup? _____

12b. Which beans were bigger, the pinto or the kidney?

12c. Discuss why.

13. Vonette had 17 beans. She wanted 25 beans.

13a. How many more did she need? _____

13b. Draw a picture or write a number sentence to show how you solved the problem.

14. Francis had 45 beans.
About half were white, and about half were brown.
About how many brown beans were there? Discuss.

TIMS CHALLENGE PROBLEM

15. Adele had a pot with 3 kinds of beans:

18 lima beans
25 kidney beans
31 pinto beans.

15a. How many beans were there altogether? _____

15b. What is half of all the beans? _____

15c. Were more than half of the beans pinto beans? _____

Explain. _____
