



STUDENT _____

GROUP _____

INSTRUCTOR _____

DATE _____

Math Lab Lesson #4 Group Activity:

Working with Fractions

Materials: Twine, scotch tape, tape measures, and small flashcards

You are sitting at a rectangular table. With your group, clear everything off of the table. Measure the length and the width of the table.

Draw a sketch of your table below, and label the length and the width.

SKETCH OF MY TABLE:

What is the area of the table, in square feet? _____

1. Using a piece of twine, divide this table in half (use scissors to cut the twine, and tape to tape the twine in place. Draw a picture of how you divided the table below:

a) What is the area of $\frac{1}{2}$ of this table? _____ square feet

b) Write this observation as a multiplication problem and as a division problem.



2. Now, take the twine off of the table and cut the table in half in a different way. Draw a picture of how you divided the table below:

3. Do it one more time!

4. Divide the table into quarters. Draw a picture of how you divided the table below:

a) What is the area of $\frac{1}{4}$ of this table? ____ square feet (LEAVE YOUR ANSWER AS A FRACTION)

b) Write this observation as a multiplication problem and as a division problem.

c) What is the area of 3 of these quarters?



5. Now, take the twine off of the table and divide the table into quarters in a different way. Draw a picture of how you divided the table below:

6. a) Ask your instructor for one small flashcard. Measure the length and the width.

Length of flashcard (in inches): _____

Width of flashcard (in inches): _____

b) Now, use your ruler to measure the length and the width of your flashcard **in feet**. **Keep your answer as a fraction.**

Length of flashcard (in feet): _____

Width of flashcard (in feet): _____

TURN OVER →



BOSS LEVEL

1. How many flashcards would it take for you to cover the entire table? Show your work 😊

IF YOU ARE DONE: Without using your ruler, try to use twine to divide the table into thirds.