

The purpose of this project is to demonstrate a clear understanding of these two concepts of division using fractions.

For this project, two students should work together. You will turn in ONE project for the two of you and both will receive the same grade. The project is worth the same as two quizzes: 20 points.

Use only one side of each piece of paper. Your project will have four pages. Page 1) story problem I with arithmetic work and quotient; Page 2) repeated-subtraction problem drawing; Page 3) story problem II with arithmetic work and quotient; Page 4) sharing problem drawing. Staple the pages together. Please put the name of BOTH students at the top right along with your section number.

Do the following:

I. Write a story problem using the repeated-subtraction concept of division. Show the division arithmetic work and the quotient. Using an entire sheet of unlined paper, make an appropriate drawing for your problem that clearly shows the correct quotient. Label the word problem and the drawing "Repeated-Subtraction."

II. Write a story problem using the sharing concept of division. Show the division arithmetic work and the quotient. Using an entire sheet of unlined paper, make an appropriate drawing for your problem that clearly shows the correct quotient. Label the word problem and the drawing "Sharing."

For both of your examples, use  $3\frac{1}{2}$  as the dividend.

Use a fraction as the divisor. Use one fraction for example I and a different fraction for example II. Write each problem so that the quotient is a mixed number.