**Multiplying and Dividing Fractions**

This mini-assignment has been created to allow you to demonstrate your knowledge with multiplying and dividing fractions. Read all instructions carefully. Always reduce and simplify to the lowest terms and please show your work.

Section A: Find the value of each expression in its lowest terms by multiplying. Remember to convert improper fraction answers into mixed fractions (18 marks – 2 marks for each question).

$\frac{1}{3}$ x $\frac{1}{2}$ $\frac{1}{2}$ x $\frac{3}{7}$ $\frac{3}{7}$ x $\frac{4}{5}$

$\frac{2}{8}$ x $\frac{3}{4}$ $\frac{4}{9}$ x $\frac{1}{2}$ $7$ x $\frac{4}{9}$

 $\frac{5}{12}$ x $\frac{4}{5}$ $\frac{3}{4}$ x $5$ $\frac{1}{5}$ x 3

Section B: Find the value of each expression in its lowest terms by dividing. Remember to convert improper fraction answers into mixed fractions (18 marks – 2 marks for each question).

 $\frac{1}{6}$ $÷$ $\frac{1}{2}$ $\frac{1}{2}$ $÷$ $\frac{1}{2}$ $\frac{11}{2}$ $÷$ $\frac{1}{2}$

 $\frac{1}{3}$ $÷$ $\frac{20}{9}$ $\frac{3}{2}$ $÷$ $\frac{4}{9}$ $\frac{4}{3}$ $÷$ $\frac{11}{12}$

 $\frac{3}{4}$ $÷$ $\frac{4}{5}$ $\frac{1}{2}$ $÷$ $6$ $\frac{2}{5}$ $÷$ $3$

Section C: Find the value of each expression in its lowest terms by multiplying. Remember to convert improper fraction answers into mixed fractions (12 marks – 3 marks for each question).

$1\frac{1}{3}$ $×$ $1\frac{2}{3}$ $4\frac{2}{4}$ $×$ 2

$2\frac{4}{5}$ $×$ $2\frac{2}{5}$ $6\frac{1}{3}$ $×$ $3$

Section D: Find the value of each expression in its lowest terms by dividing. Remember to convert improper fraction answers into mixed fractions (12 marks – 3 marks for each question).

$3\frac{1}{2}$ $÷$ $2\frac{3}{4}$ $2\frac{1}{4}$ $÷$ $1\frac{1}{2}$

$1\frac{1}{7}$ $÷$ 8 $6$ $÷$ $3\frac{4}{7}$

**Word Problems:** Please answer these word problems on a separate piece of paper (Each question is worth 2 marks).

1. A single box of thumb tack weighs $3\frac{1}{2}$ ounces. If a teacher had $4\frac{1}{2}$ boxes, how much would the total weight be?
2. Adam had a lump of Silly Putty that was $4\frac{1}{5}$ centimeters long. If he stretches it out $2\frac{3}{4}$ times its current length, how long would it be?
3. How many $\frac{1}{3}$ cup servings are in 6 cups of pecans?
4. A glass of water was $\frac{1}{8}$ of a litre. How many glasses would it take to fill up a 3 litre water jug?

Bonus: Create an expression that would multiply to give the answer: $6\frac{1}{4}$