Name: _____ ____ /40 = ____%

Multiplication, Division, Addition, and Subtraction of Fractions Assignment

Write all of your answers in lowest terms and in proper fractions where applicable. Answer all word problems in a sentence. Show all of your work!

1. Multiply. Express answers as proper fractions (2 marks each = 12 marks)

a) $3\frac{5}{8} \times 1\frac{5}{7}$ b) $2\frac{3}{10} \times 2\frac{2}{3}$ c) $1\frac{4}{8} \times 3\frac{1}{3}$

d) $2\frac{2}{4} \times 2\frac{2}{3}$ e) $4\frac{2}{5} \times 2\frac{2}{7}$ f) $4\frac{1}{5} \times 2\frac{1}{4}$

2. Divide. Express answers as proper fractions in lowest terms (2 marks each = 12 marks)

$3 \div 1\frac{1}{4}$ $\frac{3}{4} \div 4$

$2\frac{2}{3} \div \frac{4}{9}$ $3\frac{4}{5} \div 6\frac{1}{10}$

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$3\frac{6}{7} \div 2\frac{1}{3}$ $3\frac{1}{3} \div 2\frac{2}{9}$

Part B: Short Answer (2 marks each)
Write all of your answer in lowest terms. Place all final answers into a sentence.

1. Molly ate $\frac{1}{4}$ of a pie. Sarah ate $\frac{1}{3}$ of the **remainder**. How much pie did Sarah eat?

2. A hairdresser takes $1\frac{1}{6}$ hour to do a cut and colour. How many people can get their hair done in $4\frac{1}{2}$ hours?

3. Peter was looking through his Iphone music collection. He noticed that $\frac{1}{5}$of his music was country, and $\frac{1}{3}$ was pop music. What fraction of his music collection is made up of country and pop music?

4. Sam wanted to run $3\frac{1}{4}$km. He has ran $1\frac{3}{4}$km. How much further does he need to run?

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5. At LJH, $\frac{4}{5}$ of the students picked math as their favorite subject. Of these, $\frac{1}{6}$ also picked science as their second choice. What fraction of students at LJH picked math as their first choice and science as their second choice?

6. George practices his guitar for $1\frac{1}{4}$hr per day on school days. On Saturdays, he increases to his practice time to $2\frac{2}{3}$times his normal time. How many hours does he practice on Saturdays?

7. Two-thirds of a bag of candies is shared equally among 6 people. What fraction of the candies does each person get?

8. You have 6 L of pop. You are going to give each person at your party $\frac{2}{5}$L. How many people will be served pop?