**Math 8 Journal Entries**

**Learning Guide 10 (Multiplying and Dividing Fractions)**

**Although many of the below activities involve modelling fractions, it is as important to know how to solve problems mathematically as well (eg. To multiply fractions: multiply the numerators then multiply the denominators and express in lowest terms).**

**Expectation 1: Multiply a fraction and a whole number.**

Use diagrams to model and solve the question below and explain. (P.201)

**Expectation 2: Divide a fraction by a whole number.**

Use diagrams to model and solve the question below and explain (P.207)

**Expectation 3: Multiply two proper fractions.**

Use diagrams to model and solve the question below and explain (P.213)

**Expectation 4: Multiply two improper fractions or mixed numbers.**

Show how to change the improper fraction below into a mixed fraction and describe the steps. (P.219-220)

Show how to change the mixed fraction below into an improper fraction and describe the steps. (P.219-220)

Multiply, solve and simplify the question below. Explain each step. (P.219-220)

**Expectation 5: Divide two fractions or mixed numbers.**

Show how to divide the fractions below and describe the steps. (Key ideas p.226-227).

**Expectation 6: Decide when to multiply fractions and when to divide fractions in solving problems.**

**For each of the following word problems, write the equation and explain why you would either divide or multiply.**

Mr. Johnston needs a shelf to hold a set of textbooks. Each book is   cm wide. How many books will fit on an 86 cm wide shelf?

**Equation:**

**Explain:**

Cat food comes in 2 kg bags. Nibbles the cat eats  of a bag every week. What amount does she eat every week?

**Equation:**

**Explain:**