Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Fractions – Student Outcomes***

***These are the outcomes that you need to understand and demonstrate for this unit:***

1. ***Model addition and subtraction of a given positive fraction or given mixed number***, using concrete representations, and record symbolically.

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$\frac{2}{5} + \frac{1}{3}$

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$\frac{5}{7} - \frac{1}{4}$

1. Determine the ***sum of two given positive fractions or mixed numbers*** with like denominators.

$$\frac{5}{23} + \frac{8}{23}$$

1. Determine the ***difference of two given positive fractions or mixed numbers*** with like denominators.

$$\frac{29}{37} - \frac{15}{37}$$

1. Determine a ***common denominator*** for a given set of positive fractions or mixed numbers.

$\frac{3}{4} and \frac{1}{7}$

1. Determine the ***sum of two given positive fractions or mixed numbers*** with ***unlike*** denominators.

$\frac{3}{8} + \frac{2}{5}$ $2\frac{2}{3} +8 \frac{1}{6}$

1. Determine the ***difference of two given positive fractions or mixed numbers*** with ***unlike*** denominators.

$\frac{7}{8} - \frac{3}{4}$ 4 $\frac{1}{3} - 1\frac{2}{5}$

1. ***Simplify a given positive fraction*** or mixed number by identifying the common factor between the numerator and denominator.

Reduce the following. Show your work

$\frac{8}{32} $

$\frac{12}{34}$

1. ***Simplify the solution to a given problem*** involving the sum or difference of two positive fractions or mixed numbers.

***Addison and David were driving to Vancouver in two separate cars. Addison drove*** $\frac{3}{5}$ ***of the way and David drove*** $ \frac{5}{9}$ ***of the way. Who drove further? How much farther did one driver go than the other? ( answer in fraction form)***

1. ***Solve a given problem involving the addition or subtraction of positive fractions or mixed numbers, and determine if the solution is reasonable. Show your work.***

***Over the weekend, Jeremy read 1***$\frac{2}{3}$ ***books, Darian read 2***$\frac{1}{4}$ ***books and Lalia read 1***$\frac{3}{8}$ ***books.***

***How many books in total did Jeremy and Lalia read?***

***How many books in total did all three classmates read in total?***

***How many MORE books did DARIAN read than JEREMY?***

1. Position fractions with ***like and unlike denominators from a given set on a number line***, and explain strategies used to determine order.

$\frac{3}{5} \frac{1}{2}$ $ \frac{1}{3} \frac{3}{4}$ $\frac{2}{4}$ $ \frac{1}{8} \frac{1}{4}$

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1. ***Position a given set of positive fractions, including mixed numbers and improper fractions, on a number line;*** and explain strategies used to determine position.

**Place the following fractions on the number line.**

$\frac{3}{4} \frac{1}{2}$ $ 1 \frac{1}{3} \frac{10}{4}$ $\frac{2}{5}$ $ 1 \frac{3}{5} \frac{11}{3}$ $ 2\frac{1}{8}$

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