**Day 4: AA.17 & AA.18 (Rational Expressions: Add/Subtract)**

AA.17: Add or Subtract fractional expressions with monomial or binomial denominators

AA.18: Multiply and divide fractional expressions and express answers in simplest form

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| **To Add or Subtract Rational Expressions**1. Find the LCD
2. Multiply each fraction to make the LCD
3. Combine Numerator over the LCD

***\*\*Remember once you have a common denominator the denominator doesn’t change*** |

**Graphing Calculator**: All answers may be checked using the home screen with Boolean Values. (The 2nd TEST key. 1 = true and 0 = false)

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| 1. | What is the sum of  and  expressed in simplest form?1)  2)  3)  4) Lakeisha answered the question above on the IA Regents. Is she correct or incorrect? If she is incorrect please explain what mistake you think she may have made.$\frac{3}{2x}+ \frac{4}{3x}$ = $\frac{7}{5x}$ Did she answer the problem correctly? |
| 2. | Expressed in simplest form,  is equivalent to |
| 3. | CJ worked out the following problem below. He claimed the answer was $\frac{-1x+7}{2x+6}. $ His girlfriend, Jenny said the correct answer was $\frac{-1x+19}{2x+6}. $ Who is correct, CJ or Jenny?The expression  is equivalent to |
| 4. | What is the sum of  and ?1)  2)  3)  4)  |

**PRACTICE QUESTIONS:**

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| 1. | Which expression is equivalent to ?1) 2) 3) 4)  |
| 2.  | What is the sum of and ?1) 2) 3) 4)  |
| 3.  | What is  expressed in simplest form?1) 0 2) 3) 4)  |
| 4. | Expressed in simplest form,  is equivalent to1) 2) 3) 4)  |
| 5.  | What is  expressed in simplest form?1) 0 2) 3) 4)  |