Lesson 4.3 – Adding and subtracting decimals

**Standard:** *Number Sense 2.1*– Solve problems involving addition, subtraction, multiplication, and division of positive fractions and explain why a particular operation was used for a given situation.

**Content Objective (Know):** I will know how to add and subtract decimals.

**Language Objective (Do):** I will write on my white board then orally describe the steps to adding and subtracting decimals to my shoulder partner and in mix-pair share.

**Vocabulary:**

**Front-end estimation** –

**Example** -

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| Decimal | Front-end estimation |
| 2.45 |  |
| 10.65 |  |
| 4.2 |  |
| 4.59 |  |
| 3.85 |  |

**Example 1: Adding and subtracting decimals**

**8.41 + 2.6**

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| **Step 1**: Vertically (Up and down) line up the decimal points of the two numbers  **Step 2**: Draw vertical lines to keep place values organized  **Step 3**: Place a zero in any missing place values  **Step 4**: Add or subtract the problem |

**Whiteboard – CFU**

**1.)** 1.937 + 2.28 **2.)** 6 – 3.74 **3.)** 4.29 – 3.17

**Example 2: Evaluate an expression**

Evaluate = (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

*6.7 + r + 5.2 when r=2.14*

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| **Step 1**: Place the number r = into the r in the equation  **Step 2**: Vertically (Up and down) line up the decimal points of the two numbers  **Step 3**: Draw vertical lines to keep place values organized  **Step 4**: Place a zero in any missing place values  **Step 5**: Add or subtract the problem |

**CFU - Practice:**

***a*=4.2 and *b* = 6.27**

**1.)** *a*+ 9.38 **2.)** 7.8 + *b* **3.)** *b* – 1.84 4.) 10.03-*a*

**Example 3: Use front-end estimation to estimate the sum or rounding to estimate the difference**

***3.85 + 5.21***

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| **Step 1**: Add or subtract the front-end digits  **Step 2**: Estimate (Round) the remaining decimals  **Step 3**: Add both numbers together |

**CFU - Practice:**

**1.)***5.78 – 2.63*  **2.)**6.41 + 3.27 + 1.96