| MT | Learning Goals by Measurement Topic (MT) <br> Students will be able to ... |
| :--- | :--- | :--- |
|  | •use equivalent fractions as a strategy to add and subtract fractions with unlike <br> denominators. |


| Thinking and Academic Success Skills (TASS) |  |  |
| :---: | :---: | :---: |
|  | It is . . | In mathematics, students will . . . |
|  | being open and responsive to new and diverse ideas and strategies and moving freely among them. | - make the connection that knowledge of equivalent fractions helps adding and subtracting fractions with unlike denominators easier. <br> - use a variety of methods to add and subtract fractions with unlike denominators. |
|  | accepting uncertainty or challenging the norm to reach a goal. | - generate multiple ways to find solutions to word problems. <br> - make adjustments to thinking when problem solving. <br> - recognize that.... <br> o mistakes can help one learn. <br> o skillful students ask for help and feedback. <br> 0 it is okay to not understand everything the first time around. <br> o everyone is capable of high achievement. |

## Fourth Grade Compacted Mathematics Newsletter

Marking Period 4, Part 2

## Learning Experiences by Measurement Topic (MT)

| Learning Experiences by Measurement Topic (MT) |  |  |
| :---: | :---: | :---: |
| MT | In ${ }^{\text {a }}$ - | At home, your child can ... |
| $\begin{gathered} \text { Number and Operations - } \\ \text { Fractions } \end{gathered}$ | - use pattern blocks and other visual fraction models to represent equivalent fractions as a strategy to add and subtract fractions with unlike denominators. <br> - use benchmark fractions to estimate the answer to addition and subtraction of fractions with unlike denominators. <br> Example: $\frac{7}{8}+\frac{5}{6}$ is less than 2 because each fraction is less than the benchmark of I whole. <br> - create number line representations to add and subtract fractions with unlike denominators. | - create equivalent fractions to solve real-world problems involving adding and subtracting fractions with unlike denominators. (Look through recipes and add the fractional amounts.) <br> Example: A recipe calls for $\frac{3}{4}$ cup of sugar and $\frac{1}{2}$ cup of flour. How many cups were used altogether? <br> Possible questions: <br> o What strategy is most efficient in helping to solve the problem? <br> o How can using a benchmark fraction help to estimate the solution? <br> o Synthesize by asking, "Is there anything you have learned about adding and subtracting whole numbers that may help you add and subtract fractions?" |
|  | - graph and label ordered pairs on a coordinate grid. <br> - classify, describe, explain, and draw polygons including quadrilaterals based on their properties. | - design a unique game using a coordinate grid similar to Battleship, Tic Tac Toe, or Connect Four. <br> - develop a scavenger hunt to search around the home, neighborhood, or natural surroundings for examples of concave and convex polygons. |
|  | - create and analyze two numerical patterns given two rules. <br> Rule A: Start with 32. Add 3 <br> Rule B: Start with 55. Add 3 | - create a rule to represent a numerical pattern. <br> Example: At the beginning of the week you were on chapter I2. You read 2 chapters each night. What chapter will you be on in 5 days? |

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Marking Period 4, Part 2

