SD 38 K-12 Mathematics & Numeracy

Grades 6&7: Week Eleven

Big Idea: Computational fluency develops from a strong sense of number.
Curricular Content: multiplication and division facts to 100, operating with greater numbers, operations with decimals, order of operations
Curricular Competencies: develop mental math strategies and abilities to make sense of quantities, develop, demonstrate, and apply mathematical understanding through play, inquiry and problem solving, engage in problem-solving experiences that are connected to place, story, community, and culture, communicate mathematical thinking in many ways, represent mathematical ideas in concrete, pictorial, and symbolic forms
Core Competencies focus: Communication

Teachers and Families: The following are five problems/tasks to choose from for this week, based on the above curricular areas of focus.

Write a math story about a garden that involves measurement and multiplying or dividing with numbers over 1000 or using decimal numbers. Choose numbers that stretch your thinking. What problem will you pose as part of your math story? Share how you solved it.
The number/answer is 750. What could the math question be? Think of ten or more different math questions/problems that have an answer of 750. Use numbers and symbols and addition, subtraction, multiplication and division. Record all the questions on paper or using technology, considering order of operations. How are the questions the same? How are they different?
Figure out three different sets of numbers that would make sense in this math story: There are _____ rows of plants in a garden. There are _____ plants in each row. A racoon eats _____ of the plants from the garden. There are now _____ plants in the garden. Use numbers that will stretch your thinking! How can you show or record how you figured out your sets of numbers?
Choose three questions that seem just right for you: 4 x (92-49), 750 + 125 x 50, 12 – (3 x5) + 6, 6(12+8) - 75, 3 x (950-499) + 75 What different strategies can you use to solve these questions? How can you show or record how you figured out the answer?
Numeracy Task: Design and draw a garden in the shape of the polygon. What is the length of each side in centimetres or metres? What is the perimeter of your garden? Make room to plant at least 4 rows of plants. For each row, you could have 5-8 plants. How many plants are in your garden? Share your garden design and how you figured out the total number of plants in your garden. What strategy/method do you think is a strength of yours?

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Core Competencies
Reflection and Self-Assessment

As you think about number operations, problem-solving and posing, and math stories, we have asked you to think about your personal strengths and abilities. This is an important part of developing your Personal & Social competency.

 **Positive Personal and Cultural Identity**	*What are your personal strengths as a learner of mathematics?*
Share an example of some mathematics you can do that shows a personal strength or ability that you have.	
What is an area of mathematics that is a "stretch" for you? What goals do you have to improve your abilities and competencies in that area?	

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