

SD 38 K-12 Mathematics & Numeracy

Grades 6-7: Week Five

Big Idea: Number represents and describes quantity.

Curricular Content: fraction, decimal and percent concepts and relationships

Curricular Competencies: use reasoning to explore and make connections, 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.

Choose three fractions: $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$, $\frac{5}{4}$, $\frac{3}{10}$, $\frac{5}{10}$, $\frac{8}{10}$, $\frac{12}{10}$
Represent these fractions in decimal and percent form. What pictorial representation could you use for each? (consider ten frames, circles, numberline)
How are these representations the same? How are they different?
Share your thinking through pictures, diagrams, numbers and words.

Choose ten decimal numbers between 0 and 2 and write them down.
Put the numbers in order from least to greatest.
What are these numbers' equivalents in fraction and percent form?

Choose five fractions between 1 and 3.
Record these fractions as improper fractions and mixed numbers.
Record all five fractions in order from least to great along a numberline.

Here is a list of benchmark numbers in order: 0 0.5 1 1.5 2
Draw a numberline with these benchmark numbers on it and then add five or more of these numbers to it: $\frac{3}{4}$, 0.2, 40%, 0.45, $\frac{17}{10}$, 51%, $\frac{1}{4}$, 0.89, $\frac{130}{100}$, 25%
How will you share your reasoning for where you placed each of the numbers?

Numeracy Task:

Look around your home, on a website or in book, magazine or newspaper.
Where can you find fractions, decimal numbers and percents used to communicate information? Write down the numbers you find.
What are the most common fractions/decimals/percents you find?
Why do you think that is?