Grade 7 Sweet Tart Math

This is a cross strand, multiple outcome formative assessment that would be used at any time in the year as a review or as a great substitute teacher activity.

Outcomes Measured

7.N.1 Determine and explain why a number is divisible by 2, 3, 4, 5, 6, 8, 9 or 10, and why a number cannot be divided by 0.

7.N.2 Demonstrate an understanding of the addition, subtraction, multiplication and division of decimals
to solve problems

7.N.5 Demonstrate an understanding of adding and subtracting positive fractions and mixed numbers, with like and unlike denominators, concretely, pictorially and symbolically (limited to positive sums and differences).

7.N.6 Demonstrate an understanding of addition and subtraction of integers, concretely, pictorially and
symbolically.

7.N.7 Compare and order positive fractions, positive decimals (to thousandths) and whole numbers by
using:
- benchmarks
- place value
- equivalent fractions and/or decimals.

7.SP.1 Demonstrate an understanding of central tendency and range by:
- determining the measures of central tendency (mean, median, mode) and range
- determining the most appropriate measures of central tendency to report findings.

7.SP.3 Construct, label and interpret circle graphs to solve problems

7.SS.2 Develop and apply a formula for determining the area of:
- triangles
- parallelograms
- circles.

Grade 7 Sweet Tarts Math

Name: _____

1. Count the number of Sweet Tarts in your package and record the results.

2. What numbers is your total divisible by, how do you know? You may only use a calculator to check you answer.

3. What fraction of your total does each color represent, make sure to reduce your fractions.

   Red
   Yellow
   Orange
   Blue
   Purple
   Green

4. Subtract your red Sweet Tarts from the rest of the colors added together, keep in fraction form and reduce.

5. Change each fraction to a decimal.

   Red
   Yellow
   Orange
   Blue
   Purple
   Green

6. What percent of your total does each color represent?

   Red
   Yellow
   Orange
   Blue
   Purple
   Green

7. Express the value of each color in the following forms:

   Red – negative whole number

   Purple – percentage of the total expressed in decimal form

   Green - percentage of the total expressed in decimal form

   Yellow – positive whole number

   Blue – negative whole number

   Orange – positive whole number

8. Place each value on the number line provided.

9. Without using a calculator;

   Add Red and Yellow

   Multiply Purple and Yellow

   Divide Orange by Green

   Subtract Blue from Orange

   Add Purple and Green

10.Make a right angle triangular shape with as many Sweet Tarts as you can (You may not be able to use all your Sweet Tarts). Find the area of your triangle. Use a formula, your unit of measure is ST.

11.Make a parallelogram with as many Sweet Tarts as you can. Find the area of you parallelogram.

12.Which measure of central tendency you would use to determine the average color of you Sweet Tarts? Why?

13.Use a compass and protractor to construct a circle graph to represent how many Sweet Tarts there are of each color.