Fraction and Decimal Tiles Math Kit

Activity #1

Materials used for these activities: Rainbow Fraction/Decimal Tiles available through ETA Hand2Mind at www.hand2mind.com

Activity #1

Directions

1. Which fraction tile is the smallest? (Trace and label it.)

2. Which fraction tile is the largest? (Trace and label it.)

3. Organize the fraction bars into 9 rows ordered from least to greatest. What do you notice about the numerator of each fraction?

What is the relationship between numerator and denominator and the size of the fractional piece?

4. Turn the tiles over so that the decimal side is facing up. Look at the digit in the tenths place. What is the relationship between the digit in the tenths place and the size of the fraction?

5. How many different ways can you make a half? (Show and draw your thinking.)

6. How many different ways can you make a fourth? (Show and draw your thinking.)

7. How many different ways can you make a third? (Show and draw your thinking.)

8. How many different ways can you make a fifth? (Show and draw your thinking.)

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Activity #2

Situation #1

Students in Mrs. Joy's classroom earned an ice cream party. She gave them the option of either having 5/8 of a bowl of ice cream or 2/3 of a bowl of ice cream. Which serving would have more ice cream?

Build a model using the fraction/decimal tiles to show how much ice cream a person would get for each option. Once you have found your solution, trace the pieces to show your work for others to see.

Santa Clara County Office of Education

Curriculum and Instruction Math Team

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Situation #2

Students in Mr. Villar's class are making bowls out of clay. The class has been equally divided into 10 teams. Each team has 3 students. If each student needs 5/12 of a pound of clay, how many pounds of clay does Mr. Villar need per team? Write your solution as a fraction and decimal.

Build a model using the fraction/decimal tiles to match the story. Once you have found your solution, trace the pieces to show your work for others to see.

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Activity #3

Reflect and respond to at least two prompts below.

- I learned _____ about _____.
- Fraction/Decimal tiles helped me show my thinking by...
- I worked with equivalent fractions today and learned....
- A repeating decimal is_____. We can show a number is a repeating decimal because _____.

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Activity #4

Technology Connection

Melvin's Make a Match

http://pbskids.kids.us/games/equivalentfractions/equivalent_fractions.swf

Bridge Builders: A Gecko's Journey through the Land of Fractions

http://www.mathplayground.com/FractionGame/GuideGecko_Secure.swf

Tony Fraction's Pizza Shop

http://www.mrnussbaum.com/pizza_game/tonyfractionfinal.swf

Dolphin Racing

http://www.matematicasdivertidas.com/Zonaflash/juegosflash/Delfin.swf

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