IT'S A FAMILY AFFAIR!!

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School: Leland School Park

Grade Level: 6th grade

- Teaching objective(s) 6C1.f Explain the relationship among fractions, decimals, and percents with models and representation (DOK level 2)

- (Note using non repeating decimals)

Instructional Activities

1. Review concept of converting fraction to decimal, decimal to fraction, and fractions to percents using division and calculators to check the division.
   - To convert fractions to decimals we simply divide the numerator by the denominator.
   - Example $\frac{2}{5} = 2.00 \div 5$ (instruct students to put a decimal with at least two zeros following the numerator)

   $\frac{4}{5} = 4.00 \div 5 (.80)$

   $\frac{3}{4} = 3.00 \div 4 \ (.75)$

- To convert decimals to percent, simply move the decimal two places to the right.
  Example   .75 =   75%
  $\qquad\qquad$ .40 =   40%
2. Probe for prior knowledge of fractions and decimals by having a question answer conference with the students.
- Question #1 What fraction is equivalent to 0.50?

- Question   #2 $\frac{3}{5}$ is equivalent to what percent and decimal?

3. Provide guided practice on conversions & equivalent expressions. Example chart will be completed with the teacher.

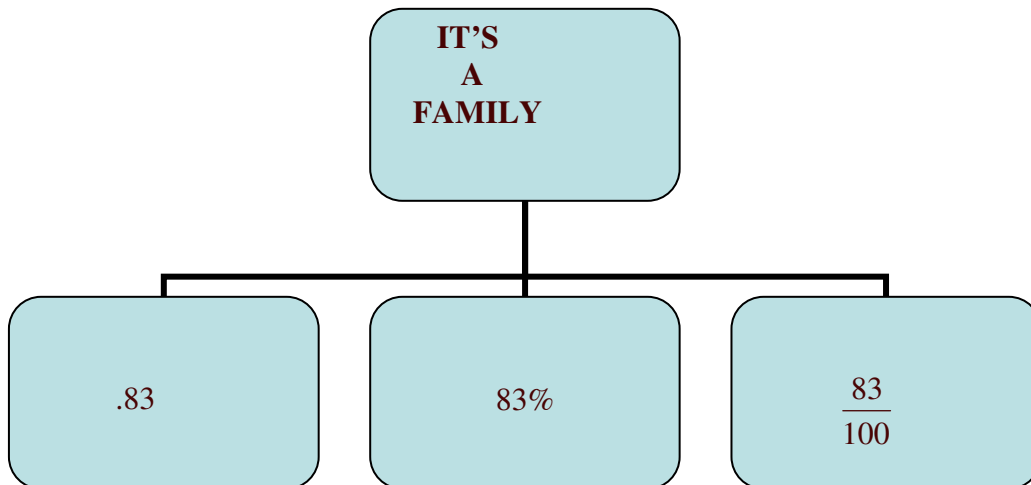| Fraction	Decimal	Percent
$\frac{1}{4}$		
	.60	

Questions for Students

1. How do we convert a fraction to a decimal? (Instructing students to write the fraction by dividing. Example $\dfrac{5}{10} = 0.5$

2. How are decimals converted to percents? (Instructing students to move the decimal two places to the right. Example .25 = 25%

3. How do we convert decimals to fractions? Instructing students to write the fraction by putting what they say into numbers. Example .03 = $\dfrac{3}{100}$

4. How do we convert percents to decimals? Instructing students to write the percent and move the decimal now two places to the left. Example 55% = .55

5. What is a percent or the definition of percent? Amount per 100.

Student Activities

1. Observe, record and monitor notes provided by teacher
2. Complete and participate in matching game called "Where's My Family?"
Given flash cards on Attachment 1 Families should be grouped together based on equivalence.

Sample:

IT'S
A
FAMILY

.83   83% $\dfrac{83}{100}$

3. Record homework to continue practice at home converting fractions to decimals.

Closing

1. Question and answer period on the practice
2. Have students give their interpretation of the questions and why they choose these answers (Say Why)
3. Do a final wrap-up by clearing up any questions and misconceptions from the practice activities.

Materials and Resources

$\Rightarrow$ Flash Cards (Attachment 1)
$\Rightarrow$ Teacher-made chart Attachment 2)

$\Rightarrow$ Overhead Projector used to provide visual execution of converting by teacher.

Assessment

Teacher-made quiz.

Attachment #1
Teacher will distribute flash cards at random instructing students to stand or find their family members or equivalent parts

(THE FAMILY AFFAIR)

FLASH CARDS

10 %	$\frac{1}{4}$	20%
$\frac{1}{2}$	0.25	50 %
$\frac{1}{5}$	$\frac{1}{10}$	.20
0.10	25 %	.5

Attachment # 2   NAME _____

Fraction	Decimal	Percent
	.5	
$\frac{3}{20}$		
		33%
$\frac{1}{5}$		
	.40	
		90%
$\frac{13}{20}$		
	.80	
		85%