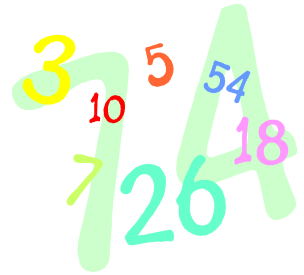# Algebra/Geometry Institute Summer 2006

Lesson Plan: Writing Equivalent Fractions

Faculty Name: Mrs. Carolyn A. Johnson
School: Warren Central Intermediate School

–   **Vicksburg, MS**

Grade Level: 5th

1. **Teaching objective(s)**
    The students will be able to show, identify, write and simplify equivalent fractions.

2. **Instructional Activities:**
    - **The teacher will review a lesson that was taught a week ago on equivalent fractions with denominators of two, four, eight, and sixteen.**
    - **The teacher will write the following on the overhead: 1/2, 5/10, 3/9, 2/6, 4/12 and so on.**
    - **The teacher will ask each group to write an equivalent fraction to each of these: $\dfrac{5}{10}, \dfrac{3}{9}, \dfrac{2}{6}, \dfrac{4}{12}, and \dfrac{7}{14}.$**

    - **The teacher will draw and shade two or more circles to show the students why these are equivalent fractions and tell them that the equivalent fraction that uses the smallest numbers is in simplest form.**
    - **The teacher will show fractional circles on overhead and say, "This is a pizza and I ate 4/8 of it. How can I show what fractional part of the pizza I ate on the fractional circles? Is there another fraction that we can write from this fraction that tells us how much pizza I ate?"**
    - **The teacher will use fractional circles to show: $\dfrac{2}{4} = \dfrac{3}{6}, and \dfrac{3}{6} = \dfrac{6}{12}.$**

3. **Activities:**

- **Display on the overhead:** $\frac{1}{2}, \frac{5}{10}, \frac{3}{9}, \frac{2}{6}$ *and* $\frac{4}{12}$. **Students will work in groups of four to find one equivalent fraction for each fraction that is on the overhead.**
- **Students will work in groups of four to show** $\frac{1}{4} = \frac{3}{12}$ *and* $\frac{3}{4} = \frac{9}{12}$ **with fractional circles.**
- **Students will use notebook paper to show two equivalent fractions for each of these :** $\frac{2}{10}, \frac{3}{6}, \frac{4}{8}, \frac{5}{15}, \frac{6}{12}, \frac{2}{16}$, *and* $\frac{9}{18}$.

- **Students will work on practice worksheet # 1.**

4. Materials and Resources

Overhead Projector
Paper
Pencils
Markers
Notebook Paper
Fraction Circles
Overhead Pens
Saxon Math Lesson #98
Lesson Worksheet #1 Teacher made

5. Assessment

- **Oral responses to questions**
- **Teacher made test given on Friday**
- **Teacher/Student overhead practice**
- **Student practice sheets**
- **Grades from worksheet #1**

Worksheet #1   **Name**_____

Date_____

Draw pictures of the equivalent fraction pairs to show your answer.

1-9

$$\frac{1}{2} = \frac{\quad}{10}$$

$$\frac{2}{8} = \frac{\quad}{4}$$

$$\frac{2}{5} = \frac{\quad}{10}$$

$$\frac{1}{4} = \frac{\quad}{12}$$

$$\frac{2}{3} = \frac{\quad}{9}$$

$$\frac{\quad}{2} = \frac{4}{8}$$

$$\frac{\quad}{5} = \frac{5}{25} =$$

$$-\frac{2}{3} = \frac{\quad}{12}$$

$$\frac{1}{3} = \frac{\quad}{9}$$

Work will be graded