

## **Fourth grade lesson plans**

**April 20 - Math - 4.NF.1**

**April 21 - Social Studies - Arkansas Governor**

**April 22 - Math - 4.NF.2**

**April 23 - Social Studies - Arkansas Colleges and Pt.2**

**April 27 - Math - 4.NF.3**

**April 28 - Social Studies - My Geography and State Geography**

**April 29 - Math 4.NF.3**

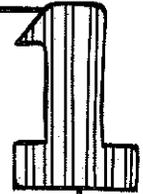
**April 30 - Social Studies - Largest City and State Capital**

4.NF.1

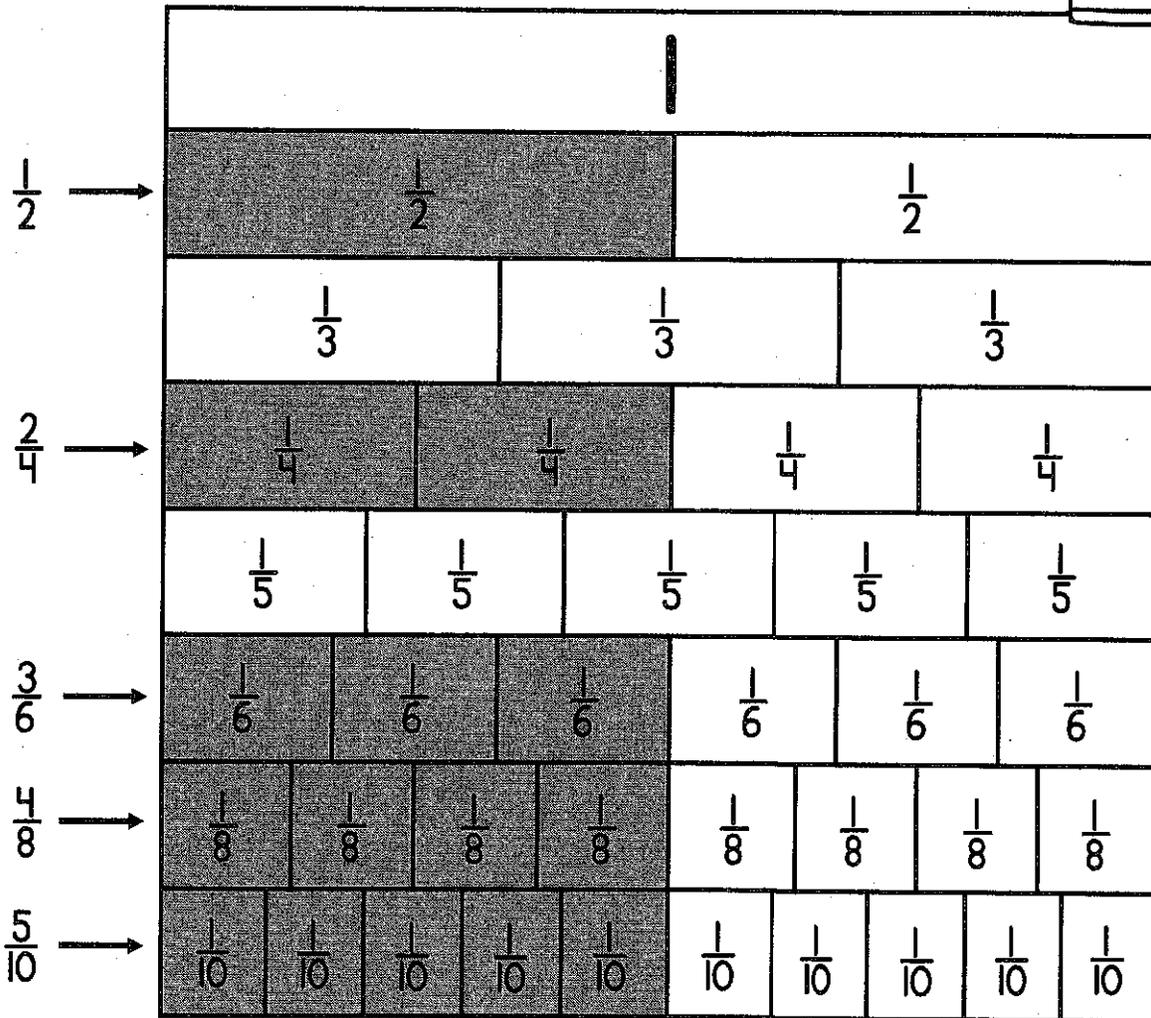
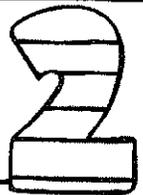
# Equivalent Fractions

I can explain equivalent fractions by using visual fraction models, and recognize and generate equivalent fractions.

## Equivalent Fractions:

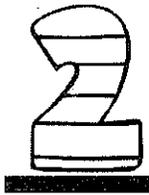


In the model below, fractions equivalent to  $\frac{1}{2}$  are shaded. Notice that although the fractions are different, they are the same size. These are equivalent fractions.



Use the model to list fractions equivalent to  $\frac{1}{2}$ : \_\_\_\_\_

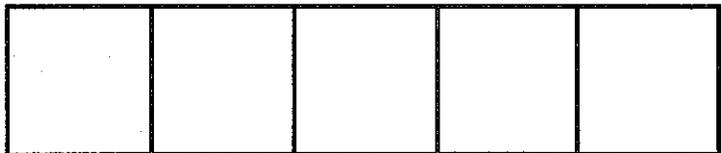
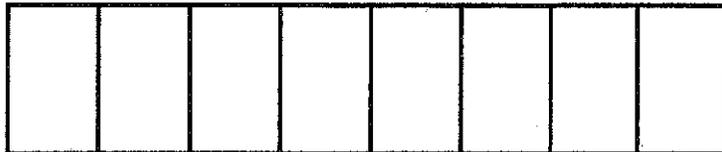
Use the fraction bars to find Equivalent Fractions...



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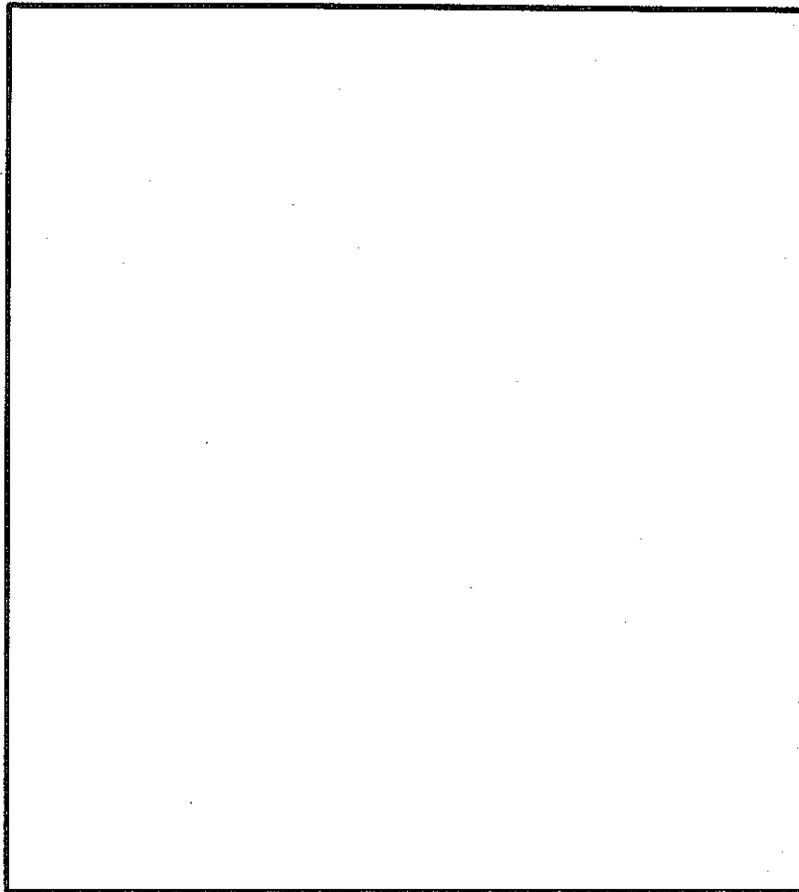
To find equivalent fractions, you can also multiply both the numerator and denominator by a fraction equivalent to 1.

$$\frac{1}{5} \times \frac{2}{2} = \frac{2}{10}$$

$$\frac{2}{3} \times \frac{3}{3} = \text{—}$$

$$\frac{1}{6} \times \frac{4}{4} = \text{—}$$

# Arkansas Governor...



Insert a picture of  
your Governor and  
write a description  
of his/her work in  
your state.

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## 4.NF.2

# Comparing Fractions

I can compare two fractions with different numerators and different denominators, by creating common numerators or denominators or by comparing to a benchmark fraction.

## Strategies for Comparing Fractions:

{Use these strategies to compare  $\frac{1}{4}$  and  $\frac{2}{3}$ }

Use a fraction model:

 $\frac{1}{4}$ 

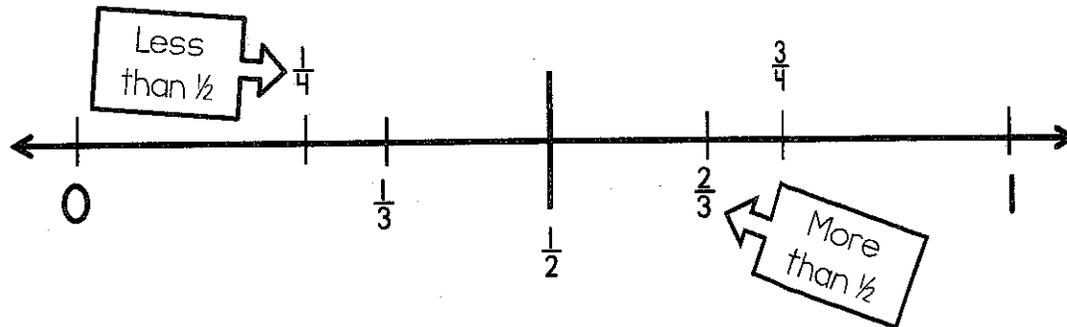

Divide the bar into equal fourths and shade one bar.

 $\frac{2}{3}$ 


Divide the bar into equal thirds and shade two bars.

Compare the shaded models.

Compare to a benchmark like  $\frac{1}{2}$ :



Find common denominators:

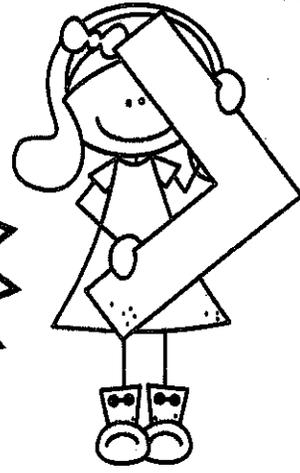
To compare  $\frac{1}{4}$  and  $\frac{2}{3}$ , find common denominators by finding equivalent fractions with the same denominator. Then compare.

$$\frac{1}{4} \times 3 = \frac{3}{12}$$

$$\frac{2}{3} \times 4 = \frac{8}{12}$$

$$\frac{8}{12} > \frac{3}{12}, \text{ so } \frac{2}{3} > \frac{1}{4}$$

Compare each set of fractions:



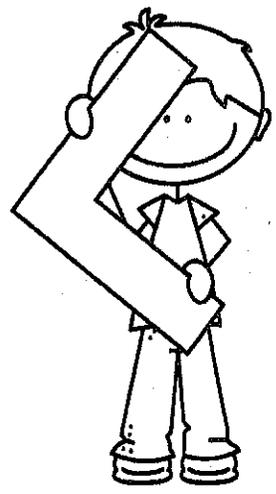
$\frac{2}{5} \bigcirc \frac{5}{8}$

$\frac{2}{3} \bigcirc \frac{4}{6}$

$\frac{5}{8} \bigcirc \frac{3}{4}$

$\frac{3}{10} \bigcirc \frac{2}{3}$

$\frac{5}{3} \bigcirc \frac{7}{8}$

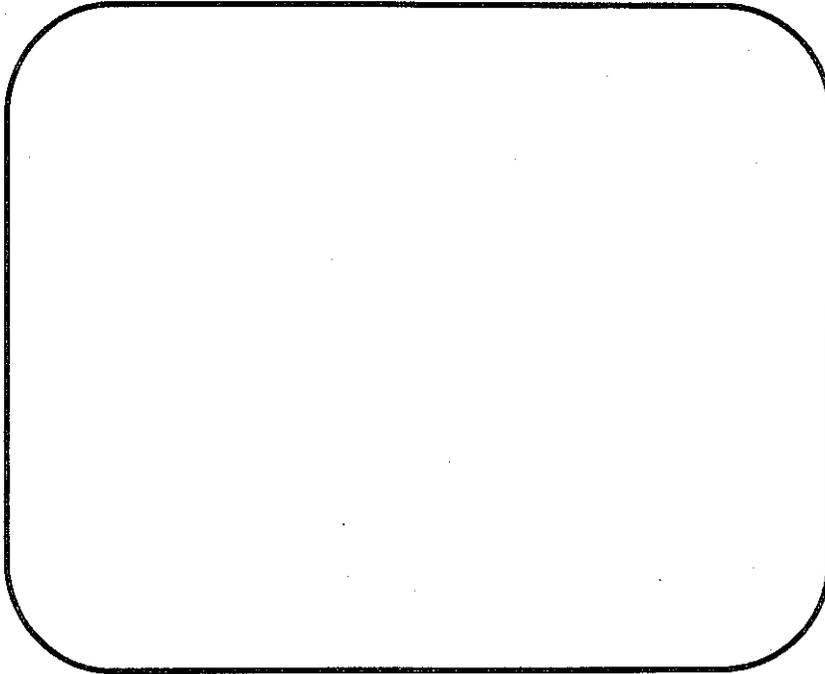


$\frac{1}{2} \bigcirc \frac{5}{8}$

Use the different strategies from the previous page.

# Arkansas Colleges...

Insert pictures or symbols of two state colleges. Give the name and location of each.



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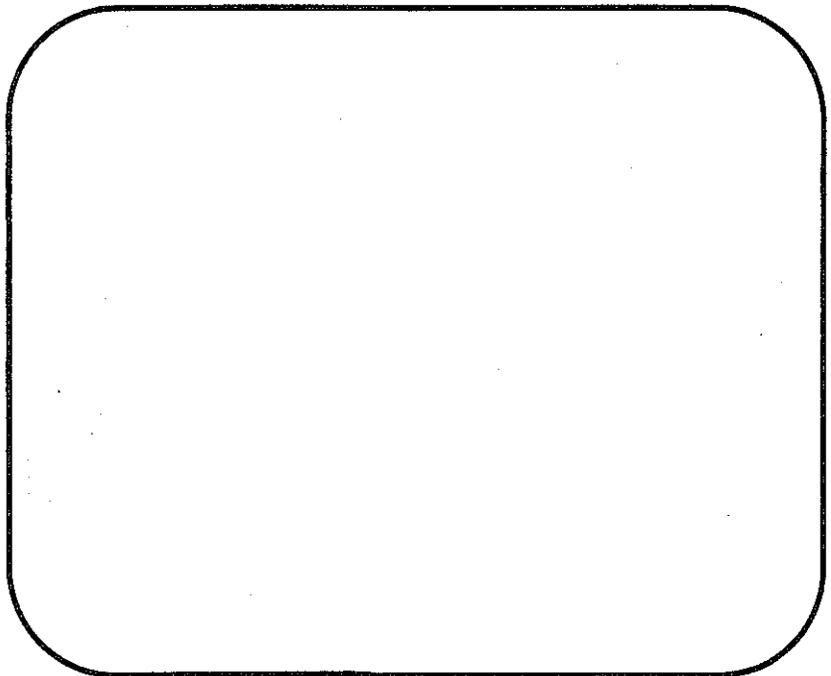
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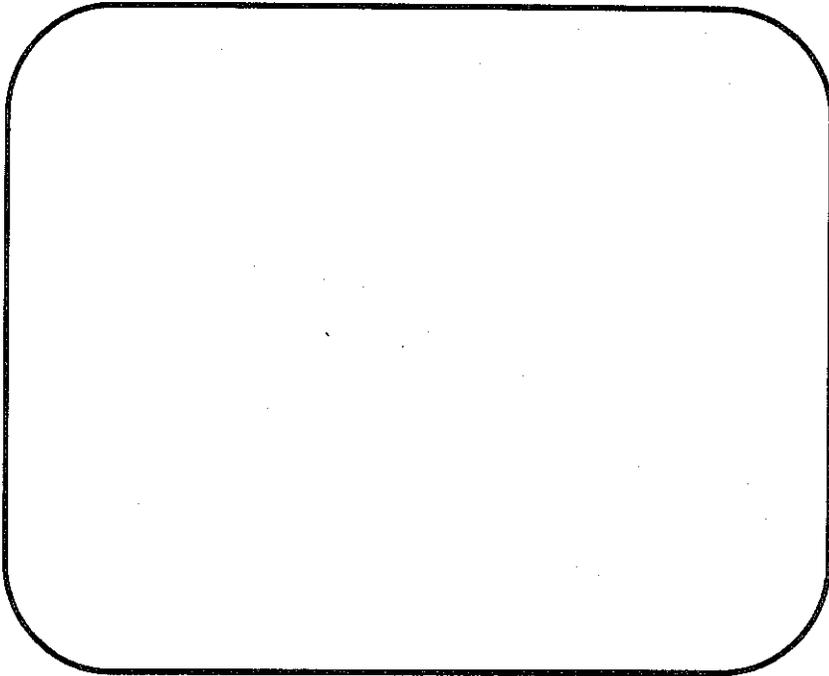
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# State Colleges... Part 2

Insert pictures or symbols of two more state colleges. Give the name and location of each.



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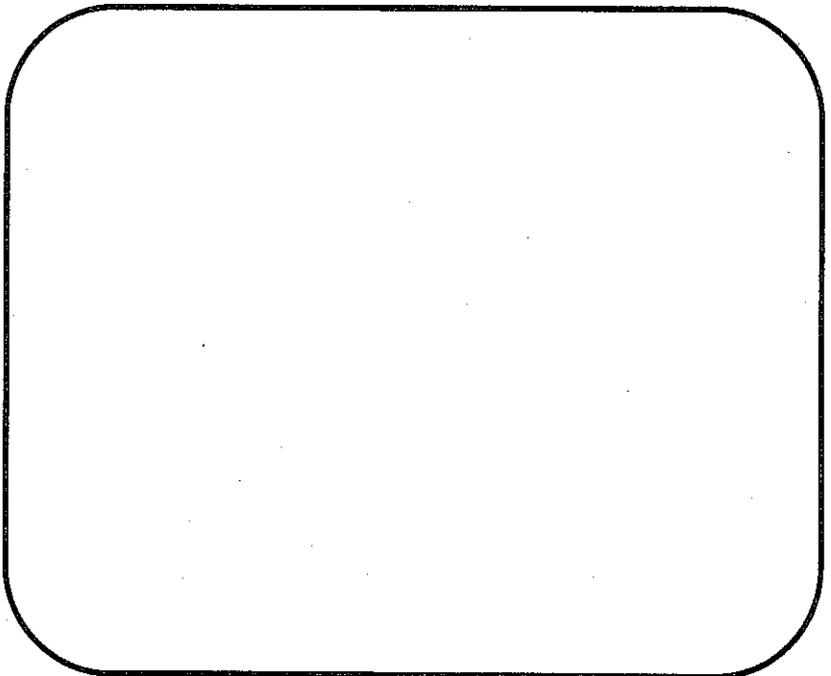
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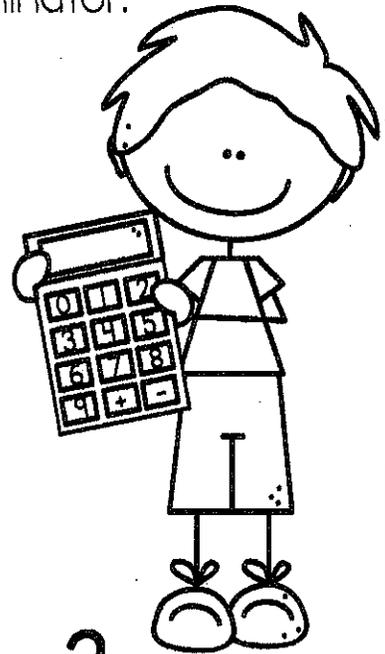


4.NF.3

## Decomposing Fractions

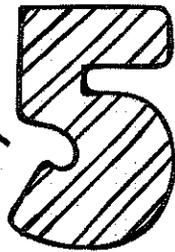
I can decompose a fraction into the sum of fractions with the same denominator.

To decompose a fraction, break the fraction into smaller fractions with the same denominator.



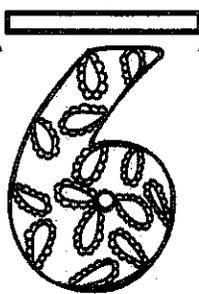
$$\frac{4}{6} + \frac{1}{6}$$

$$\frac{3}{6} + \frac{2}{6}$$



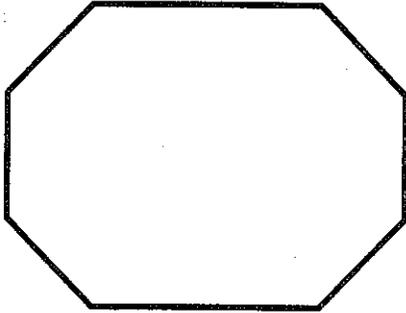
$$\frac{2}{6} + \frac{2}{6} + \text{---}$$

$$\frac{3}{6} + \text{---} + \text{---}$$

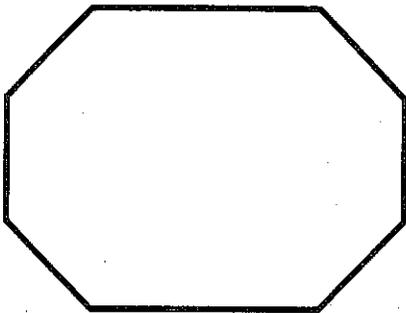
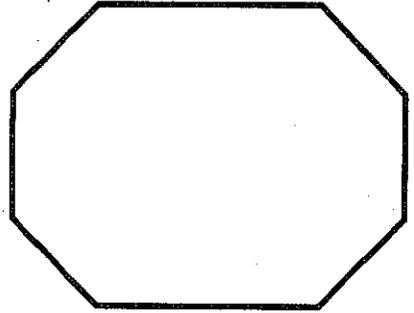


$$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$$

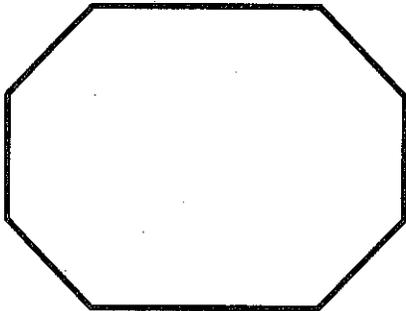
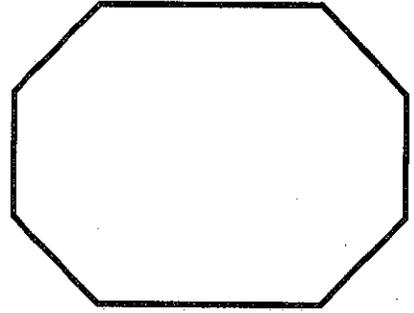
Find two ways to decompose each fraction.



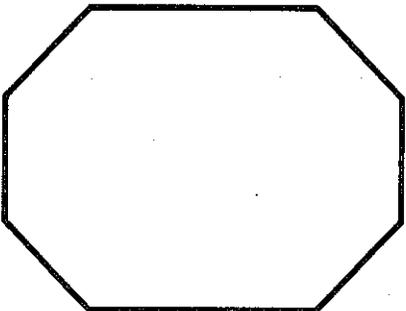
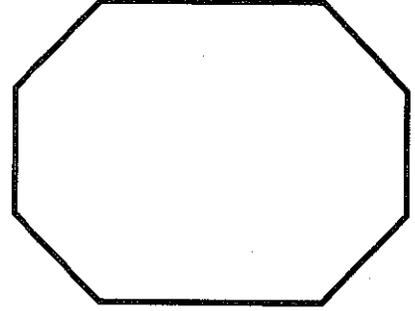
$$\frac{3}{4}$$



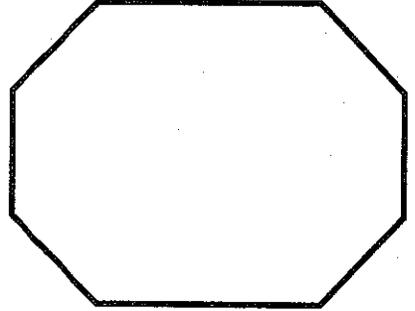
$$\frac{4}{5}$$



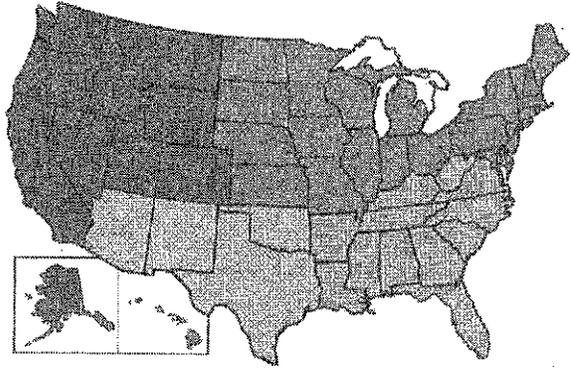
$$\frac{7}{8}$$



$$\frac{7}{10}$$



# My Geography



My County is:

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My Street is:

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There are \_\_\_\_\_  
counties in my state.

My Zip Code is:

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The counties that  
surround my county  
are:

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My City is:

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April 20

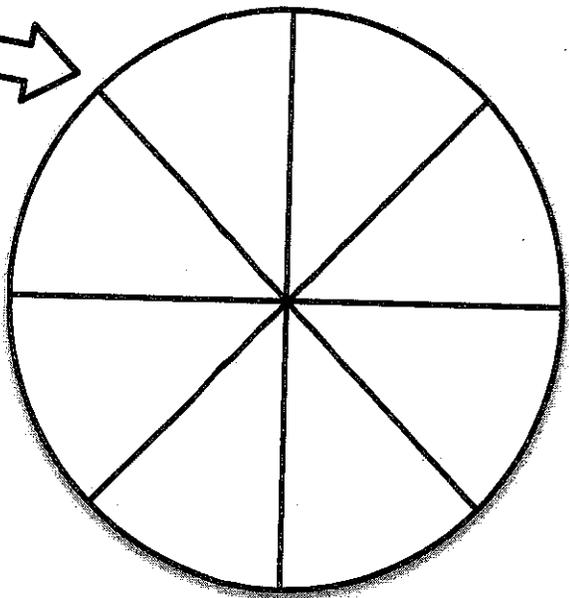
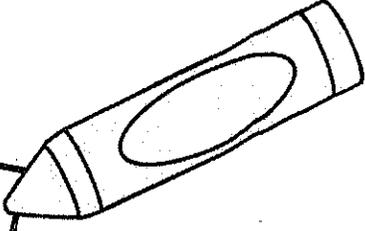
# State Geography

Draw the outline of your state and then label  
all of the major cities.

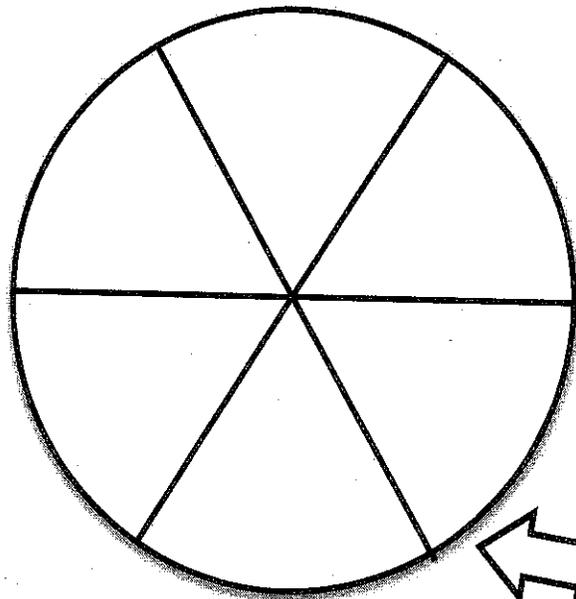
# 4.NF.3 Adding & Subtracting Fractions

I can understand addition and subtraction of fractions as joining and separating parts referring to the same whole.

Shade 3 parts with one color and 2 parts with another. How many total parts are shaded?

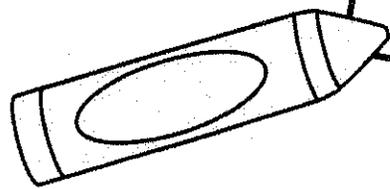


$$\frac{3}{8} + \frac{2}{8} = \underline{\quad}$$



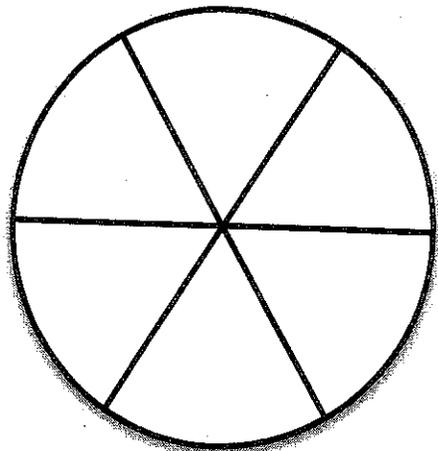
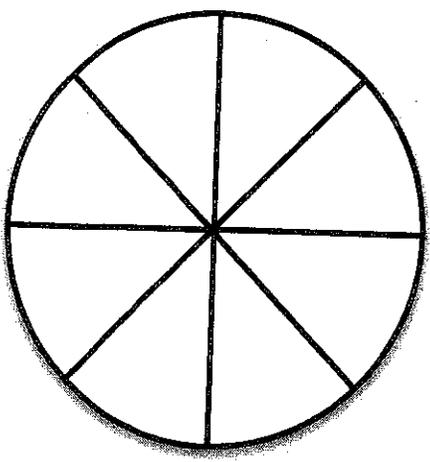
$$\frac{4}{6} - \frac{3}{6} = \underline{\quad}$$

Shade 4 parts then X out 3 of the shaded parts. How many parts are left shaded?



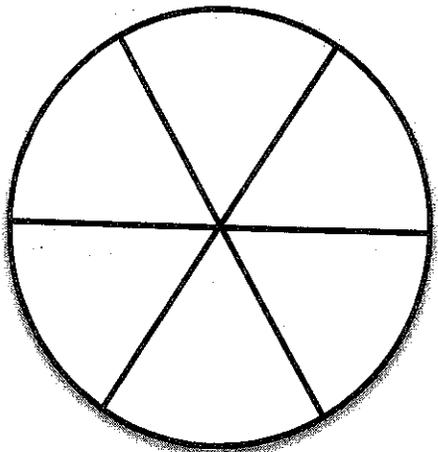
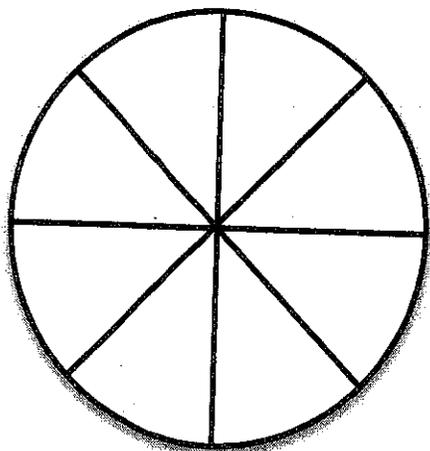
April 29

$$\frac{5}{8} + \frac{2}{8} = \underline{\quad}$$



$$\frac{4}{6} + \frac{1}{6} = \underline{\quad}$$

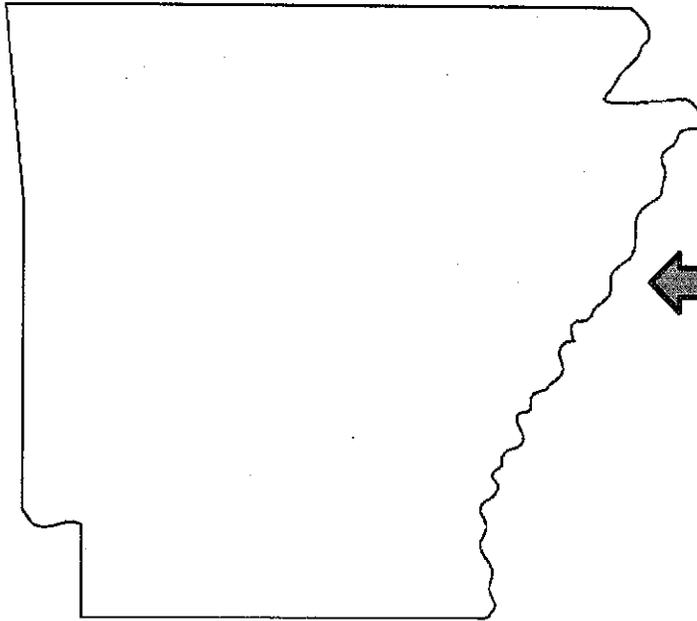
$$\frac{3}{8} - \frac{1}{8} = \underline{\quad}$$



$$\frac{5}{6} - \frac{4}{6} = \underline{\quad}$$

April 30

# Largest City



Mark and label the location of the largest city.

The population of the largest city is \_\_\_\_\_.

The largest city was founded by..

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April 30

# State Capital

Some exciting things to see and do in the state capital are...

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History about the state capital:

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Draw or cut and paste a picture of something that relates to your capital.

