Name _____ Date of Test _____ Parent Signature_____

Fractions ll Study Guide

Please show all your work when applicable. Don't just write answers.

Remember to reduce all fractions to their simplest form.

I. Mixed Fractions and Improper Fractions

1.) Write a mixed number for the following improper fractions.

a. $\frac{22}{4}$ _____ b. $\frac{56}{5}$ _____

2.) Write an improper fraction for the following mixed fractions.

a. $4\frac{3}{5}$ _____ b. $5\frac{3}{7}$ _____

II. Writing a fraction as a sum of fractions.

3.) Write $\frac{23}{17}$ as a sum of 4 fractions. _____

4.) Find another way to answer number 3? _____

III. Operations with Fractions.

5.) Grace, Chase, and Artur ate chocolate cake for dessert. Grace ate $\frac{1}{2}$ of the cake, Chase ate $\frac{3}{16}$ of the cake, and Artur ate $\frac{2}{8}$ of the cake. What **fraction** of the cake is left over, assuming it was originally sliced into 16 pieces?

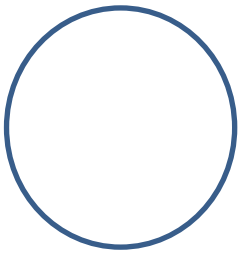
There is _____ of the cake left over. Write an equation.

Use the model below to show how much of the pie was eaten.

6.) Cooper bought 4 ½ gallons of milk for a party at school. Harry purchased 2 ½ gallons of milk for that week's breakfast. How much milk did the two boys purchase altogether? _____

7.) A recipe calls for $5\frac{3}{4}$ cups of sugar while a second recipe calls for $3\frac{1}{4}$ cups of sugar. How many less cups of sugar are required in the second recipe compared to the first recipe?

8.) Aubrie, Claudia, and Lucia ate a pizza for dinner. Aubrie ate ¼ of the pizza, Claudia ate $^1/_6$ of the pizza, and Lucia ate $^5/_{12}$ of the pizza. Draw a model to represent how much of the pizza was eaten.



9.) How many slices of the pizza did they eat in all? Write an equation to show this.

10.) Matt has $5\frac{4}{5}$ pints of ice cream. He and his friends bought an additional $3\frac{2}{5}$ pints of ice cream. How much ice cream do they have altogether?

11.) $\frac{3}{5}+\frac{1}{5}=$ _____

12.) $\frac{22}{25}-\square=\frac{13}{25}$

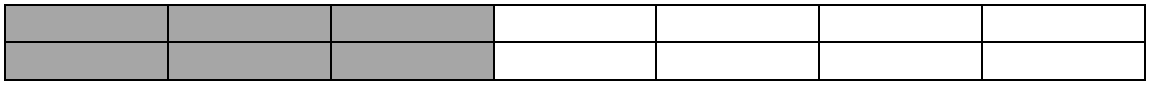
13.) $6\frac{7}{9}-2\frac{1}{9}=$ _____

14.) $\frac{4}{6}-\frac{1}{6}=$ _____

15.) $6\frac{3}{9}+1\frac{3}{9}=$ _____

16.) $\frac{3}{7}+\square=1\frac{2}{7}$

17.) Use the diagram below to answer the following fractions.



a. Write a fraction that represents the shaded region above.
b. Write a fraction that represents the un-shaded region.
c. Write an equation that represents how many more un-shaded regions there are than shaded regions.

IV. Modeling Multiplication with Fractions

18.) Write a multiplication equation for the model below.

19.) Solve:

a. $10 \times 3/5 =$ _____ b. $7 \times \frac{4}{6} =$ _____

20.) Each member of a relay team runs ½ of the track. If there are 6 members in the relay, how many laps do they run altogether?

21.) At the first basketball game, the band sold 30 pizzas. At the second game, they sold $^{5}/_{6}$ more pizza than that they sold at the first game. How much more pizza did they sell at the second game?

22.) Julie lost $^{9}/_{16}$ of a pound the first week of her diet. After a month she lost 12 times as many pounds than she lost the first week. How many pounds has she lost?

23.) Trey had 44 baseball cards. He gave away $^{1}/_{4}$ of them. How many cards did he have left?

24.) Amy saved $360 mowing lawns one summer. She spent a third of that money on an ipod. She then earned an additional $50 babysitting. How much money does she have now?

25.) Solve:

a. $3\frac{2}{7} - 2\frac{4}{7} =$

b. $4\frac{5}{6} + \beta = 6\frac{1}{6}$ $\beta =$ _____

c. Write 2 equivalent fractions for $\frac{3}{7}$ _____, _____

V. **Spiral Review-Be sure you can find and verify equivalent fractions**, identify place value, determine the value of digit in a given number, estimate, perform multi-digit multiplication, and long division, etc……

Use this space to practice.