6th Grade Group Assignment – Week #4

Individual Homework: See how much you can do on Sheet #4. Note that I will introduce exponents and do more with mixed numbers (fractions) during Wednesday's lecture, so you may want to hold off on those problems until after Wednesday's lecture.

<u>Note for parents</u>: As always, be sure that the students do not look at the following questions until their group meeting begins. I don't want anyone to arrive at the group meeting with a solution or ideas of how to solve it. I want the students to contemplate this together in their groups.

For Group Work on <u>Tuesday</u>

- 1. Unit Cost and Rates
 - a) If 10 pounds of bananas cost \$5.20, how much do 8 pounds of bananas cost?
 - b) If 3 boxes of cereal cost \$6.90, how much do 7 boxes of cereal cost?
- 2. What number is halfway between...
 - a) 35 and 83?
 - b) 45 and 52?
 - c) $7\frac{3}{5}$ and $7\frac{4}{5}$
 - d) Extra challenge! $7\frac{5}{6}$ and $10\frac{3}{8}$

For Group Work on <u>Thursday</u>

3. *Form Tracing*. Trace this form without lifting your pencil off the page, retracing any part of the form, or crossing through any line you've already traced.



4. *The Chicken, the Fox, and the Sack of Grain.* Jeff must carry a chicken, a fox, and a sack of grain across a bridge. However, he can only carry one at a time, and he cannot leave the chicken alone with the grain or leave the fox alone with the chicken. How can he do this?

5. *Coin Puzzle*. Kate has a pocketful of dimes and quarters. How many quarters are there if there are a total of 29 coins and they are worth \$4.85?

6th Grade Math – Sheet #4

Do it in your head.		Decimals.		21) Look at the previous	
1)	500 · 6000	16)	586.3 + 5.72	three problems. What is the <i>trick</i> for multiplying	
2)	40·9000			tw jus	o numbers that are st over 100?
3)	56,000÷70				
4)	55,000÷1,100	17)	70.4 - 6.82		
5)	0.007 • 100				
6)	$0.007 \div 100$			22)	
7)	51.2 · 1000	18)	103·107	22)	<i>Cast out nines</i> to check your answer. 789.2 x 5.34
8)	$72.3 \div 1000$				
9)	11•45				
10)	11 • 85				
11)	45•4				
12)	520•4	19)	104 •107		
13)	0.03 • 0.7				
14)	0.005 • 0.04			23)	8 ²
15)	587	20)	105·109	24)	2 ³
,	677 797 147			25)	40 ²
	$ 537 \\ 467 \\ 927 \\ + 317 $			26)	10 ⁵

Fractions.		33)	$7\frac{5}{2} - 2\frac{7}{2}$	Lon	g Division.
27)	$\frac{4}{5} + \frac{2}{7}$	55)	/ ₈ ∠ ₈	<i>Fill it</i> If necessary examples the presence of the presence o	<i>n the Blanks</i> . cessary, review the ple and problems on revious worksheet.
28)	$\frac{4}{5} - \frac{1}{5}$	34)	$7^{3} - 2^{4}$	39)	With $3497 \div 81$, we first ask, "How many times does go into?"
29)	$\frac{8}{9} \div \frac{6}{7}$	54)	7 <u>8</u> 2 <u>5</u>	40)	With $18457 \div 683$, we first ask, "How many times does go into?"
				41)	With 91.35 ÷ 72.5, we first ask, " <i>How many times does go into?</i> "
30)	$\frac{5}{12} \cdot \frac{8}{15}$	35)	Convert to a mixed number.	Now, answ divisi your numb	, using your above ers, do the below ion problems. Leave answers as mixed pers. <i>You must show</i>
31)	$5\frac{7}{8} + 12\frac{2}{3}$		<u>75</u> 8	your piece 42)	work on a separate of paper. 3497 ÷ 81
		36)	Convert to an improper fraction. $\neg 3$,	
		Cha	/ a	43)	18457 ÷ 683
	_ 7 _ 5	Sho Leav mixe	e your answer as a d number.		
32)	$7\frac{7}{8} - 2\frac{5}{8}$	37)	867 ÷ 5	44)	Leave your answer as a decimal. 91.35 ÷ 72.5
		38)	62794 ÷ 7		