6th Grade Assignment – Week #31

Individual Work:

• Do as much as you can with Sheet #26, except for #28-33, which should be saved for your group work.

Group Assignments:

For Tuesday

- Together discuss **Problem #33 on Sheet #26**.
- **Big Square Root.** Together, find a way to calculate $\sqrt{717409}$
- A 3x3 Magic Square

Use the numbers 1 through 9 only once and fill in the grid shown on the right, so that each row, column and diagonal has the same sum.

- **Connected Circles.** Put the numbers 1 through 8 into the circles such that no two consecutive numbers are connected. For example, if we choose to put 3 into the top-most circle, then we cannot put 2 or 4 into any of the three circles just below it.
- **Two Number Puzzle.** Find two numbers whose product is 432 and sum is 62.

For Thursday

- Together do Problems #28-32 on Sheet #26.
- **Two Number Puzzle.** Find two numbers that add to 496 and subtract to 132.
- Basketball Score.

In a basketball game, the Tigers beat the Apes by 18 points. Twice the Tigers' score was 6 less than 3 times the Apes' score. What was the Tigers' score?

6th Grade Math – Sheet #26

Do	it in vour head.	Percents.	Rates.
1)	2.5 • 3	19) What is 42% of 600?	25) Fran's hourly wage is
2)	0.16 • 2		\$12/hr and she works 32 hours per week. How
3)	1.4^{2}		long does it take her to earn \$2400?
4)	1.3•3	20) What is $121/6\%$ of	
5)	34	320?	
6)	5 ³		
7)	$(0.2)^6$		
8)	0.106 • 0.105	(21) 15 is what parameters	
9)	80000÷50	(21) 15 is what percent of $60?$	
10)	724-487		Compound Fractions.
11)	3.99		$3 - \frac{1}{4}$
12)	16•99	22) 31 is what percent of	$26) \overline{\frac{5}{6} \cdot 2^{1/2}}$
13)	234 • 5	37? (Round your answer to three significant digits.)	
14)	$0.234 \div 0.05$		
15)	$\sqrt{40000}$		
16)	Convert to a percent.		
a)	2/3	23) How much do you	
b)	7/8	have to pay for a \$48	27) 2
c)	2/5	jacket if there is 9% tax?	$27) \qquad 2 - \frac{2}{2 - \frac{16}{2}}$
d)	1/6		-2-72
17) a)	Convert to a fraction.		
a) b)	15%	Ratios.	
c)	37.5%	24) At a train station in Holland there are 975	
18)	Convert to a decimal	bikes parked and 75 cars.	
10) a)	<u>5</u>	to cars?	
u)	11		
b)	3.7%		

Foreign Exchange.	31) At each bank, what do	Line Graphs.
Review the <i>foreign</i> <i>exchange</i> example and problems from the previous worksheet.	you end up with if you change £150 into dollars, and then change that back into pounds? (Note: banks don't usually give coins in	show the rates at which two people mowed a one- acre lawn.
The exchange rates for the British pound (\pounds) at Bob's Bank (in Texas) are:	foreign currency.) a) At Clara's Bank:	John's Mowing
Buy \$1.52/£ Sell \$1.72/£		unt of L
The rates for the U.S. dollar at Clara's Bank in England are:		Time Elapsed
Buy £0.608/\$ Sell £0.632/\$		Kate's Mowing
28) Which bank do you think has better rates for its customers?		Time Elapsed
29) How many dollars do you get for £200 at Bob's Bank?	b) At Bob's Bank:	Given that both Kate and John mowed their one-acre of lawn in the same amount of time, describe the differences that are shown in the above graphs.
30) How many pounds do you need to give Clara's Bank in order to get \$400?		
	32) Now, which bank do you think has better rates?	