6th Grade Assignment – Week #30

Individual Work:

• Do as much as you can with Sheet #25, except for #15, 16, 17, which should be saved for your group work.

Group Assignments:

For Tuesday

- Work together on the foreign exchange problems on Sheet #25. Do it in this order:
 - Read through the middle column of the page (including the **Tips** and the **Three Questions**) and make sure everyone understands it.
 - Read the example in the right column and make sure everyone understands it.
 - Together, do problems #15, 16, and 17.
- If you still have time left over, then start the puzzles listed for Thursday, below.

For Thursday

• Comparing Money

Ron has \$4 more than half as much as Tim. Paula has 3⁄4 as much as Ron. How much do the three of them have combined, if Paula has \$24?

- Weighing Quarters One quarter weighs 0.2 ounces. How many pounds does \$100 in quarters weigh?
- **Cutting a Board** How long does it take to cut a 12-foot board into 12 one-foot pieces, if each cut takes 30 seconds? (Hint: it's not 6 minutes.)

• Summing Primes

- a) Find three prime numbers that have a sum of 41.
- b) Find four prime numbers that have a sum of 41.

• The Hungry Cat

A cat ate 100 mice in 5 days. On each day (except the first) he ate 3 more mice than he did the day before. How many mice did he eat on the first day?

6th Grade Math – Sheet #25

Do it in your head.	Foreign Exchange.	Example:
1) 15.3	<u>Bob's Bank</u> in Texas has	At Bob's Bank, how many pesos do you get
2) 16•4	its foreign exchange rates posted as:	for \$50?
3) 18 ²	Canadian Dollar (CN\$) Buy US\$0.75 / CN\$	Solution: Answering the three questions, we get:
4) 3^3	<i>Sell</i> US\$0.80 / CN\$ Mexican Pesos (MP)	1. A dollar is worth more
5) 2 ⁴	Buy US\$0.08 / MP Sell US\$0.12 / MP	than a peso. 2. The bank is <i>selling</i>
6) 4^5	<u>Tips</u> for doing foreign	pesos.3. Since the <i>selling</i> rate for
7) 1.1.6.9	 exchange rate problems: Whenever an exchange of 	pesos is 0.12, we can see that we must <i>divide</i>
8) 6÷1000	foreign currency takes place between a bank and a	50 by 0.12, resulting in an answer of <u>417 pesos</u>
9) $150 \div 240$	customer, each party is <i>buying</i> one currency and	(rounded to the nearest peso).
10) 1800^2	<i>selling</i> the other currency.If you are <i>buying</i> pesos	If we had mistakenly
11) \(\sqrt{0.04}\)	from the bank, you are also <i>selling</i> U.S. dollars to the	<i>multiplied</i> 50 by 0.12, we would have gotten
12) Convert to a percent. a) $\frac{5}{8}$	bank. At that same moment, the bank is <i>selling</i> pesos and <i>buying</i> U.S. dollars.	an answer of 6.0 pesos, which would obviously not be a good deal.
b) $\frac{5}{6}$	• The exchange rates listed	15) At Bob's Bank, how
c) 0.8	at any bank are always given in terms of whether	many U.S. dollars do you get for 2000 pesos?
13) Convert to a fraction.a) 20%	<i>the bank</i> is selling or buying the foreign currency, not whether you	get 101 2000 pesos.
	are buying or selling the foreign currency.	
b) 33 ¹ / ₃ %	 To do a foreign exchange calculation, 	16) How many Canadian dollars do you get for
c) 0.004	you must answer three questions:	US\$380?
14) Convert to a decimal.	1. Which currency is worth more?	
a) $\frac{9}{20}$	2. Is the bank <i>buying</i> or	
b) 38.4 %	<i>selling</i> the foreign currency?	17) How many pesos do you need to give the bank
c) 9 ¹ / ₂ %	3. Should we divide or multiply by the given	in order to get US\$80?
d) 4¼ %	rate?	

