***Lesson Plan #4***

Title: **On Sale**

Concept / Topic to Teach: Sale pricing.

General Outcome(s): **Develop number sense and critical thinking skills**

Specific Outcome(s): **Number #1 – Solve problems that involve unit pricing and currency exchange, using proportional reasoning.**

Required Materials: Whiteboards, whiteboard markers, windows, smartboard

Anticipatory Set (Lead-In - 10 minutes):

 A high school has a strange principal. On the first day, he has his students perform an odd opening day ceremony:

There are one thousand lockers and one thousand students in the school. The principal asks the first student to go to every locker and open it. Then he has the second student go to every second locker and close it. The third goes to every third locker and, if it is closed, he opens it, and if it is open, he closes it. The fourth student does this to every fourth locker, and so on. After the process is completed with the thousandth student, how many lockers are open?

Answer: 31 – the total number of perfect squares up to 1000.

Step-By-Step Procedures

1. (5 minutes) Have the students in groups and ask them to discuss the lesson from yesterday’s lesson on Setting a Price. They can look on their notes if they need to. After about 3-4 minutes, pick one group and get the spokesperson to give the rest of the class a rundown of the answer in their own words.
2. Ask for any questions from the previous day’s homework(Pg. 33) and lead them through to the answer either having the students come up to the board and put down the answer as the rest of the class helps or have them lead you through the answer.
3. (5 minutes) Have the students get their duo-tangs from the shelf and work on some extra drill and practice questions to enrich the learning from the previous day.
4. (10 minutes) Ask the students if they get excited when they see something on sale? How do you go about finding when there are sales going on?
5. Talk about different ways that something could go on sale. For example:

* Save the GST
* Buy one and get one free
* Something added to the product for free
* What else?

1. Why do stores have sales and not just sell the products at the lower price?

* Get people in the store
* Get rid of older stock
* What else?

1. (15 minutes) Put up the definition of **promotion** and talk about how GST and PST are applied when a sale price is involved
2. Put up the examples of sale pricing from the smartboard notes and have the students work on them. After they are done ask the students to explain to the class they got their answers.
3. (10 minutes) Have the students stand up and grab a whiteboard marker and find a spot in the classroom where they can see the smartboard. After they find their spot put this question from the smartboard notes and have them solve this mentally.

* Shopping for a new phone, Greg is looking at the new Iphone 4G. The list price for the phone is $495.00 and is being marked down 20%. Approximately what price do you estimate the sale price will be?
* Have the students write down their answers and go back to their seats.
* Walk around and discuss the answers and what strategies would they use to help them do some quick math to figure out sale prices in the store when they are shopping.

1. (20 minutes) Independent Practice

* Pg. 37 in MathWorks 10 - Questions #1-6

1. (5 minutes) Cool Down Activity: