		Р	ROJECT OVERVIEW	P	AR	T 1: <i>DEI</i>	FINE					
Name of Project: Order		Order I	der Please Duration					2 weeks (approximately)		ely)		
Subject/Course:		Mathen	natics: Order of Operations – Making Real	World	Conne	ections	Grade Leve	I: 6 <sup>th</sup>				
Other subject areas to be included, if any:		Techno	ıology									
Project Idea Summary of the issue, challenge, investigation, scenario, or problem:		evaluatin students	Students will make a real world connection to the mathematical concept, Order of Operations. Order of Operations is a mathematical rule for evaluating expressions. The students will perform operations in parenthesis, compute with multiplication, division, addition, and subtraction. The tudents will learn (explore) the rule from moving left to right with multiplication and division and then perform all addition and subtraction from left or right through investigations, scenarios and then finally with a real world problem with shopping online.									
Driving Question	1	How ca	in you get the most "bang for your buck"?									
Standards to be		numbe	<b>6.10</b> – Add, subtract, multiply and divide per given the percentage and the number, <b>N</b> . riate decimal numbers.							vith		
				T+A	Е				T+A	Е		
21st Century Skills to be explicitly taught and		Collabo	pration	*		Other:						
assessed (T+A) or that will be encouraged (E) by		Presen	tation	*								
project work, but not taught or assessed:		Critical	Thinking:		*							
								Presentation	n Audie	nce:		
Culminating Products and Performances		p:	The group will discover the concept of Order of Operations themselves along with scaffolding built into the project. There will be checkpoints/questioning strategies					Class	<b>3</b> :	*		
			built into the daily scaffolding lessons ald	ong the way to assess to progress of			ss of the	School:				
			group as a whole, as well as opportunities for one on one individual assessment.					Community:				
		The students will do a final project where they will shop online and 'purchase' items.  They will be given specific criteria that they need to fulfill including defining the						Experts:				
	Indiv	vidual:	mathematical concept of Order of Opera	ations in their own words as well as o			as create a	Web	:			
			mathematical expression. They will provide a final hard copy in their choice of genre (i.e. poster, video, word document, power point) with containing specific requirements.						Other:			

	PRC	JECT	OVERVIEW PA	RT	2: DESIGN		
"Grabber" to launch inquiry & generate interest:	ready for a scho	ol day. The getting rea	teacher will demonstrate a dramat	ic perfo	with waking up from a goodnight sleep and will get ormance by getting ready by purposely mix up the interest of what the teacher is doing and the effect	of	
Assessments	Formative	Quizzes/T	Quizzes/Tests		Practice Presentations (if necessary)	*	
	Assessments	Journal/Learning Log		*	Notes		
	(Checkpoints During Project)	Preliminar	Preliminary Plans/Outlines/Prototypes		Checklists		
		Rough Dra	Rough Drafts		Concept Maps		
		Online Tests/Exams			Other: Shopping Project with rubric	*	
Summative		Written Product(s), with rubric:		_	Other Product(s) or Performance(s), with rubric: 5 Problem-Group Rubric	*	
	Assessments (End of Project)	Oral Presentation, with rubric		*	Peer Evaluation		
		Multiple Choice/Short Answer Test			Self-Evaluation		
		Essay Test			Other:		
Debriefing Methods	Journal/L		earning Log	*	Focus Group		
Wethods	Group, and/or Whole Class)	Whole-Class Discussion		*	Fishbowl Discussion		
	micio Giaco,	Survey – End of Project Self-Assessment		*	Other: One on One (as needed)	*	
Resources Needed	On-site people, f	acilities:	Technology Instructor				
Necueu	Equipment:		Internet, computer lab, PowerPoint, I	Math Ca	est		
Materials:			Poster/Display Boards, Construction Paper, Markers, Journals, Daily Exit Questions, Board Work Questions				
	Community reso	urces:	None				

PROJECT TEACHING	AND LEARNING GUIDE
Project: Order Please	Course/Semester: First
Knowledge and Skills Needed by Students to successfully complete culminating products and performances, and do well on summative assessments	Scaffolding / Materials / Lessons to be Provided by the project teacher, other teachers, experts, mentors, community members
<b>Prior Knowledge</b> : Cyber Safety, Internet Research, Integration Lab Rules/Expectations/Consequences, Math Cast, PowerPoint/other genre for presentations	Technology Instructor as well as Teacher →
Order of Operations, Mathematical Terminology and appropriate usage, Calculation of Sales Tax	Board Work, Exit Questions, Open Classroom Discussion, Elevator Discussion (PP), Thanksgiving Dinner Assignment (Word Document) – Scaffold lesson, 5 Problems-Group Assignment (Rubric), Journal Writing, Family of Four Project (Rubric)
Rubrics (5 Problem-Group & Final Project) How to read and understand expectations	5 Problems Rubric:  http://www.rcampus.com/rubricshowc.cfm?code=S325AX&sp =yes Family of Four Rubric:  http://www.RCampus.com/rubricshowc.cfm?code=K3253C&s p=yes
Journal Writing Expectations, Group Discussion Etiquette, Group Norms	Journals, Classroom Discussion, Posted Rules →
To possess knowledge of the organized method for evaluating expressions and why it is important to utilize it in mathematical computations.	<b>→</b>

	PROJE	CT CA	LEN	DAR	
Project: Order Please			Start Date:	September, 2009	
MONDAY	TUESDAY	WEDNES	DAY	THURSDAY	FRIDAY
	P	ROJECT WI	EEK ON	N E	
Grabber Event, Classroom Discussion with reordering of dramatic event, Exit Question Written in Math Journal	Board Work Question in Math Journal, Groups of 2 with Discussion, Elevator problem with classroom, Homework =Thanksgiving Dinner for Retirement Home - Graded	Board Work Que Math Journal, Ch assignment (Din Discussion, Page current Math Tex Exit Question in Journal	neck HW iner), e 25 in xtbook,	Form Groups, Group Assignment: 5 Problems of numbers and = you must fill in the operations, Discussion, Rubric for Groups, Exit Question in Math Journal	Group Discussion of week Project Handouts Review of Rubric Discussion of Due Date Exit Question in Math Journal
	PR	OJECT WE	EEK TV	N O	
Integration Lab to work on Project One-on-One Time with Teacher if necessary Exit Question in Math Journal	Classroom time to work on Project Teacher to discuss with students One-on-One (if necessary) Exit Question in Math Journal	Integration Lab to on Project One-on-One Time Teacher if necess Exit Question in Journal	ne with sary	Classroom time to work on Project Teacher to discuss with students One-on-One (if necessary)	Project Due Poster/PP presentations
	PRO	DJECT WEI	EK TH	REE	
End of Project Self Assessment Evaluation and Reflection Sheet (page 123 of handbook)					

### End of Project Self-Assessment

Project:	Name:	Date:
I completed the following tasks du	uring the project:	
As a result, I learned the following	g:	
About the subject matter		
About working with a partn	er	
About working in a group		

Abo	out presenting to an audience
Abo	ut
I learned t	hat my strengths are:
I learned I	need to work on:
I would ma	ke the following changes if I were to do the project again:

#### <u>Project Checkpoints - Daily Lesson Outline</u>

#### Day 1:

**Grabber Event** 

Discussion with reordering of dramatic event

Exit Question written in Math Journal

→ Can you think of something in your daily life that needs to follow a certain order or else it is wrong?

#### Day 2:

Board Work Question in Math Journal

→ Summarize in your own words the discussion from yesterday's math class.

Elevator Problem PP

Groups of 2 – discussion in group and then as a whole class

- → give the students timed segments of discussion as a group
- → bring them back as a whole group

Homework = Thanksgiving Dinner for Retirement Home (graded)

- → Quiggly Wiggly Weekly Ad
- → Homework sheet

#### Day 3:

Board Work Question in Math Journal

→ Give me a positive and a negative to yesterday's homework assignment

Check HW assignment, group discussion

Scaffolding Lesson – with calculators Page 25 in Holt Mathematic Textbook

**→** #

Exit Question in Math Journal

→ Why do we need Order of Operations?

#### Day 4:

Form Groups

→ Have them already formed and when they come into class have them sit in their groups

Discussion of: "What Group Work Looks Like"

5 problems (in groups) – with discussion of 5 problems rubric

Discussion with whole classroom

Exit Question in Math Journals

→ As a result of working in groups, tell me your groups strategies for solving the problems that were given.

#### Day 5:

Group discussion of week

- → Why do we need to follow Order of Operations?
- → What did you think about the way we approached this mathematical concept?
- → How would you explain this is different that what math usually looks like?
- → Did the PBL work for you?
- **→** ...

Final Project Handouts, review of rubric, discussion of due date and final expectations

#### Exit Question in Math Journal

→ How are you going to approach your project?

#### Day 6:

Integration Lab - time to work on project, one-on-one time with individual students

#### Exit Question in Math Journal

→ How is it going? How much did you accomplish today? Do you need additional help from me? From another student?

#### Day 7:

Classroom time to work on project, one-on-one time with individual students (if necessary)

#### Exit Question in Math Journal

→ How is it going? How much did you accomplish today? Do you need additional help from me? From another student?

#### Day 8:

Integration Lab – time to work on project, one-on-one time with individual students

#### Exit Question in Math Journal

→ How is it going? How much did you accomplish today? Do you need additional help from me? From another student?

#### <u>Day 9:</u>

Classroom time to work on project, one-on-one time with individual students (if necessary)

#### Day 10 +:

Projects due

Presentations

Order Please...

Christine Catlin

Daily Detail Notes

#### Day 1

<u>Grabber:</u> Teacher will bring in a variety of items from home to school involved with waking up from a goodnight sleep and will get ready for a school day. The teacher will demonstrate a dramatic performance by getting ready by purposely mix up the order of steps of getting ready for school. This will launch inquiry and interest of what the teacher is doing and doing it incorrectly.

<u>Discussion Q's:</u> Get the students involved with the dramatic performance

Reordering of Events: With students on board

Exit Question in Math Journal (turn in when you leave): Summarize in your own words why it is important to follow a certain order when completing a task?

#### Day 2

<u>Board Work in Math Journal:</u> Step by step list the order that you would construct a peanut butter and jelly sandwich (Keep it to 5 - 7 steps).

<u>Groups of 2 (Turn in Math Journal):</u> Discuss with each other your technique/steps. Determine between the two of you which seems more accurate? Do you want to re-do your arrangement?

Elevator Problem as a Whole Group: PowerPoint

<u>Homework Assignment (Thanksgiving Dinner):</u> Sales Paper - Word Document & Homework Assignment - Word Document

#### Day 3

<u>Board Work in Math Journal (Turn in Math Journal)</u>: Identify and explain was the most challenging aspect of last night's homework?

<u>Check Homework Assignment:</u> Discussion by comparing each other's mathematical expression (what worked/what didn't). Determine different ways to accomplish the same task.

<u>Calculator Problems - Exploring Order of Operations:</u> Word Document

Homework Assignment - Math textbook, Holt Course 2, Page: 25

<u>Exit Question in Math Journal (Turn in Math Journal)</u>: Describe your mnemonic for the Order of Operation rules?

#### Day 4

Check Homework: Page 25 out of 26 points

<u>Discussion</u>: Whole group or one-on-one

Form Groups: 5 problems (Word Document)

- Review Norms, Rubric, Expectations

<u>Exit Question in Math Journal (Turn in Math Journal)</u>: Evaluate yourself in your group today by answering the following questions:

- I contributed to the group progress in the following way
- In this group today it was difficult for me to
- I found out that

#### Day 5

Group Discussion of the Week: Review of the events leading up to today

<u>End of Project Handout</u> - Explanation of Project (Family of Four Word Document), Rubric, Due Date:

<u>Exit Question in Math Journal (Turn in Math Journal)</u>: Describe to me what you feel will be your greatest challenge in this project?

#### Day 6

<u>Integration Lab</u> - Review Rules of Lab/Expectations/Consequences:

One-on-One Time if necessary:

Exit Question in Math Journal (Turn in Math Journal): Summarize your day today

Day 7
Classroom Time to Work on Projects:
One-on-One Time if necessary:
Exit Question in Math Journal (Turn in Math Journal): It is coming down to the final days of the project, choose something that you think is your best and describe it to me in words.
D 0
Day 8
<u>Integration Lab</u> - Review Rules of Lab/Expectations/Consequences:
One-on-One Time if necessary:
Exit Question in Math Journal (Turn in Math Journal): Tell me if you have any concerns with your project?
<u>Day 9</u>
Classroom Time to Work on Projects:
One-on-One Time if necessary:
<u>Day 10</u>
Project Due:
<u>Presentations</u> - Rubric:
<u>Day 11</u>
End of Project Self-Evaluation and Reflection Sheet: Word Document

Family of Four

Final Project

Attached Rubric

In our community there was a fire. The fire totally wiped out the family's belongings. The family consists of a mother, father, and twins. The twins are 1 boy and 1 girl that are in the 6<sup>th</sup> grade. They are staying with relatives and their home owners insurance will take care of replacing the major items they lost in the house (furniture, appliances). You have been given \$500 by the local community to purchase items for this family. You will use the internet to shop for items. You need to purchase items for all 4 members of the family but the majority can be spent on the twins. You will need to site your Internet sources as well as use as many discounts as possible. The local Wal-Mart, Meijer, Target, and Best-Buy stores are giving a 20% discount if you purchase from their websites. Your final project must have the mathematical expression using all discounts and sales tax when appropriate. You may have one expression for each member of the family if you want. You will present this information to the classroom - the type of presentation your choice. It can be a PowerPoint, Math cast, Video, Poster or any other type of multi-media (preapproved by the teacher). Your grade will be determined by the attached rubric.

#### Final Project MUST Include:

- Internet Sources
- Mathematical Expression (one for each member of family)
- Multi-media Presentation
- Spend as much as the \$500 as possible

#### Due Date:

This rubric is for a 6th grade PBL Unit on Order been researching on how to get more bang fo community. The students were given a set amo	of Operations. The ryour buck for a fan bunt of money and we findings in various for the set of the matical ful of thusiasm audien the set of t	nily of four that has rec vere to purchase items orms of multimedia.	ently had a house fire in our
Thorough 20 pts  Oral Presentation to Classroom  Thorough 20 pts  Thorough Presentation and multimedia conta the required infoi Eye contact, Voice Engagement, Mar Vocabulary, Mind audience, and En  (Highest Points =  Thorou The scenario is w thought out and according to the requirements. It assignment for a operation real-we situation.	Sound 15 pts  I choice of ain all of rmation: exe, thematical ful of audien exe at the second of the	Sound Itation and choice of nedia contains most required information: ntact, Voice, ement, Mathematical ulary, Mindful of nce, and Enthusiasm est Points = 15)	Basic 10 pts  Basic Presentation and choice multimedia contains little of required information: Eye contact, Voice, Engagement, Mathematical Vocabulary, Mindful of audience, and Enthusiasm
Dral Presentation to Classroom  Thorous Presentation and multimedia contathe required inform Eye contact, Voice Engagement, Man Vocabulary, Mind audience, and Engagement Engagement Engagement Strangement Strangement Engagement For an Operation real-worsituation.	gh I choice of multim mation: ee, thematical ful of thus audien e 20)  15 pts  Presen multim of the Eye co Engage Vocabu audien e 20)  (Highe the School of the Eye co Engage Vocabu audien e 20)	Sound Itation and choice of nedia contains most required information: Intact, Voice, ement, Mathematical ulary, Mindful of Ince, and Enthusiasm ast Points = 15)	Basic Presentation and choice multimedia contains little of required information: Eye contact, Voice, Engagement, Mathematical Vocabulary, Mindful of audience, and Enthusiasm
Oral Presentation to Classroom  Thorou Presentation and multimedia conta the required infor Eye contact, Voic Engagement, Mar Vocabulary, Mind audience, and En (Highest Points = Thorou The scenario is withought out and according to the requirements. It assignment for a operation real-worsituation.	gh I choice of militim of the Eye co Engage ful of worthusiasm = 20)  Igh  The sc	Sound Intation and choice of media contains most required information: intact, Voice, ement, Mathematical ulary, Mindful of ince, and Enthusiasm est Points = 15)	Basic Presentation and choice multimedia contains little of required information: Eye contact, Voice, Engagement, Mathematical Vocabulary, Mindful of audience, and Enthusiasm
Multimedia Choice  Thorou  The scenario is we thought out and according to the requirements. It assignment for a operation real-we situation.	igh vell The sc	ŕ	(riighest rollits = 10)
The scenario is we thought out and according to the requirements. It assignment for a operation real-we situation.	vell The sc	Sound	
Organization, Va (Mathematically correctness), Qua materials, Compl Illustrations, Sop (complex vs easy  (Highest Points =	require require require require Require Organi (Mathe correct materi Illustra (compl ality use of lete, phistication y)	ements: ements: ezation, Validity ematically eness), Quality use of als, Complete, ations, Sophistication lex vs easy) est Points = 15)	Basic The scenario was poorly displayed and contained little of the required information.  Requirements: Organization, Validity (Mathematically correctness), Quality use of materials, Complete, Illustrations, Sophistication (complex vs easy)  (Highest Points = 10)
		C I	D
Research/Documentation  Information gath clearly relates to and includes deta Successfully uses links to find infor and navigation w Documentation or requirements:  Required: Quality, Support presentation/mul including but not at least 5 Websi Internet Advertis including dates a amounts	lered Inform occasion topic a	ed: y, Support of your ntation/multimedia ng but not limited to st 5 Websites, et Advertisements, ng dates and	Basic Needed assistance for gathering information gathered as it relates to topic. Documentation of the requirements was not attempted:  Required: Quality, Support of your presentation/multimedia including but not limited to at least 5 Websites, Internet Advertisements, including dates and amounts  (Highest Points = 10)
(Highest Points =	= 20)		
-			

1 of 2 4/15/2010 3:19 PM

### 5 Problems

Date:	

Names of Students in Group: \_\_\_\_\_

<u>Directions:</u> For each problem you must insert the correct operation ( $+ \times \div$  square or parentheses) to make the expression correct. Show all work on a separate sheet of paper and put only the correct answers on this sheet.

Rubric: See attached

3. 
$$3^3$$
 1 (8 7) 5 12 8 2 = 28

5. 
$$12^2$$
 45 15  $10^2$  64 8 = 49

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Class:		Student: Grade:	
		ms - Group Work tase Group Assignment	
Problems		and a second	i Rubric
	Thorough 15 pts	Sound 10 pts	Basic 5 pts
Working As A Group	Thorough Almost always listens to, shares with, and supports the efforts of others. Tries to keep people working well together in group	Sound Often listens to, shares with, and supports the efforts of others, but sometimes is group does not work well together	Basic Rarely listens to, shares with, and supports the efforts of others. Often the group does not work well together
	15 points	10 points	5 points
Focus On The Task	Thorough Consistently stays focused on the task and what needs to be done. Very self-directed  15 points	Sound Focuses on the task and what needs to be done some of the time. Other group members must sometimes nag, prod, and remind to keep on-task  10 points	Basic Rarely focuses on the task and what needs to be done. Lets one or two do all the work.  5 points
Mathematical Error	Thorough 100% - 85% of the steps and solutions have no mathematical errors	Sound 84% - 75% of the steps and solutions have no mathematical errors	Basic More than 75% of the steps and solutions have mathematical errors
	15 points	10 points	5 points
Norksheet Completion	Thorough Worksheet turned in with all the pertinent information listed	Sound Worksheet turned in with some of the pertinent information listed	Basic Worksheet turned in with little to none of the pertinent information listed
	15 points	10 points	5 points
	Com	ments:	
uild free rubrics at www.i	Rubric.com		Rubric Code: \$325A

1 of 1 4/15/2010 3:22 PM

Board Work: Evaluate: 4 + 2 x 8

- Evaluate by adding first and then doing the multiplication (48)
- Evaluate using a calculator (20)
- How did the calculator come up with 20, what operation did it do first?
- Who is correct? Why? What operation do you do first? Rules?

Try by hand and then check with your calculator:

- $10-4 \div 2 = 8$ , What operation do you do first?
- $4 + 15 \div 5 = 7$
- 7 4 1 = 2, What operation do you do first?
- 19 + 5 11 = 13

Mnemonic - PEMDAS: Please Excuse My Dear Aunt Sally

• What is yours?

Parentheses: Insert parentheses to do that part of the expression first

- $(8 + 2) \times 10 3 = 97$
- $8 + 2 \times (10 3) = 22$

Insert parentheses to make the values of each expression equal to 12

- 56-40+4= 56-(40+4)=12
- $3-1 \times 10-4 = (3-1) \times (10-4) = 12$

Exponents:

- $10^2 \div 4 8 = 17$
- $5 + 6^2 \times 10 = 365$

Homework = Page 25, #8 – 22 Even, 26 – 32 Even, 38, 43 – 55 All Out of 26 points

### This Week's Ad - Quiggly Wiggly Local Grocery Store



15 lbs. of Potatoes \$4.39



Ham \$1.09 per pound



Gravy \$.99 per jar



Corn \$ 1.09 per can



Turkey \$ .69 per pound



Cranberry Sauce \$ 1.37 per can



Rolls \$ 4.25 per dozen



Gallon Milk \$ 3.29



Assorted Homemade Flavors of Pie \$6.95 per pie

\$ .50 OFF each can of cranberry sauce

Buy 1 Get 1
Free
Dozen Rolls

Spend \$75.00 or more and use this coupon for \$10.00 off **entire order** 

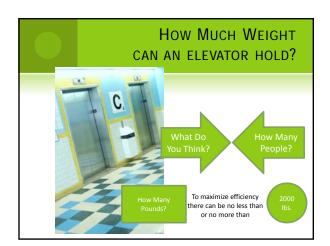
Name: Dat	e:
-----------	----

Directions: You have the privilege to create a Thanksgiving meal for the local retirement home. Oakwood Acres is home to 10 senior citizens. Our  $6^{th}$  grade class has collected \$ 65.00 to spend at the local Quiggly Wiggly. Please find attached this week's advertisement including the coupons at the bottom of the ad. The purchasing requirements are as follows:

- Turkey 20 lbs
- Ham 10 lbs
- Potatoes 15 lbs
- Gravy 3 jars
- Corn 4 cans
- Rolls 2 dozen
- Cranberry Sauce 4 cans
- Pies 6 pies

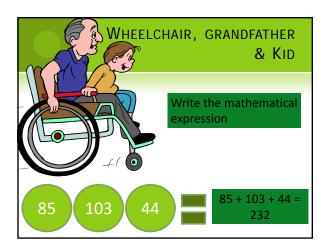
You will determine the proper mathematical expression to use. Use as many mathematical operations as necessary  $(+, -, \times, \div)$ . Include parentheses as well as many condensed expressions as possible. Remember that coupons are deducted from the total order and must be expressed appropriately.

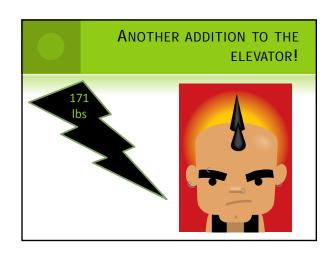


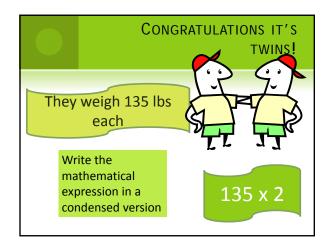




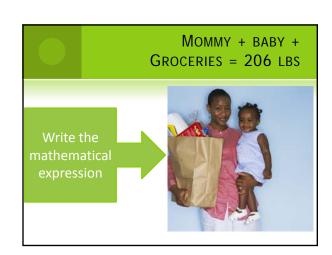
	WRITE IT AS A MATHEMATICAL EXPRESSION					
227 lbs.	35 lbs.	25 lbs.	25 lbs.	25 lbs.		
227 + 35 + 25 + 25 + 25 = 337						
Can you rewrite it in a more condensed version?						
227 + 35 + 25 x 3 = 337						

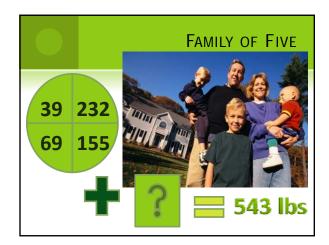




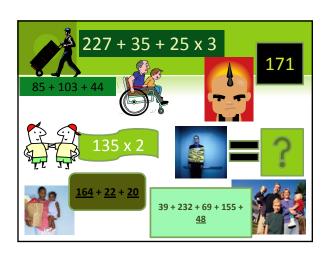














VMD	WHAT	DO	VOII	CET?
AND	WHAI	טט	YUU	GE I !

227 + 35 + 25 x 3 + 85 + 103 + 44 + 171 + 135 x 2 + 241 + 164 + 22 + 20 + 39 + 232 + 69 + 155 + 48 = 2000

	\	WHY ARE THERE PARENTHESES?			
(227 + 35 + 25 x 3) + (85 + 103 + 44)					
+ (17	<mark>71)</mark> +(135 x 2) -	+ (241) +			
(164 + 22 + 20) +					
(39 + 232 + 69 + 155 + 48) =					
	2000				



### THE ELEVATOR SITUATION

Mrs. Catlin – PBL Unit 2009

# HOW MUCH WEIGHT CAN AN ELEVATOR HOLD?





THE DELIVERY MAN

How much does the delivery man weigh?

How much does the dolly weigh?

How much do the packages weigh? Each?

227

lbs.

35 lbs.

25 lbs. each

## WRITE IT AS A MATHEMATICAL EXPRESSION

227 35 25

lbs.

lbs.

25 25

lbs. lbs.

lbs.

25

$$227 + 35 + 25 + 25 + 25 = 337$$

Can you rewrite it in a more condensed version?

$$227 + 35 + 25 \times 3 = 337$$



WHEELCHAIR, GRANDFATHER & KID

Write the mathematical expression

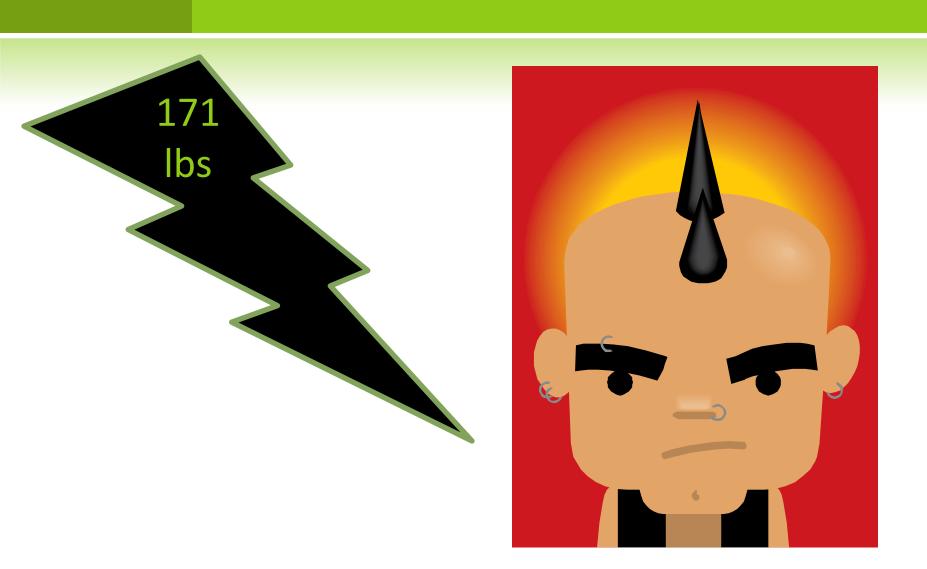
85 103

44



85 + 103 + 44 = 232

# ANOTHER ADDITION TO THE ELEVATOR!



### CONGRATULATIONS IT'S

They weigh 135 lbs each

TWINS!

Write the mathematical expression in a condensed version

135 x 2

## THE BUSINESS MAN

How much does the business man weigh?



You'll have to wait until the end to find out!

# MOMMY + BABY + GROCERIES = 206 LBS

Write the mathematical expression



## FAMILY OF FIVE

39 232

69 155







## TIME TO PUT IT ALL

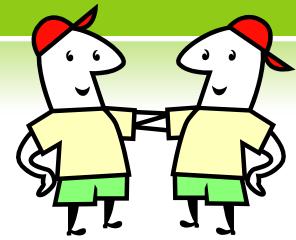














To Equal 2000 lbs



## 227 + 35 + 25 x 3

171

85 + 103 + 44







135 x 2









<u>164</u> + <u>22</u> + <u>20</u>

39 + 232 + 69 + 155 + <u>48</u>



## STILL MISSING...



## AND WHAT DO YOU GET?

$$227 + 35 + 25 \times 3 + 85 + 103 + 44 + 171 + 135 \times 2 + 241 + 164 + 22 + 20 + 39 + 232 + 69 + 155 + 48 = 2000$$

## WHY ARE THERE PARENTHESES?

$$(227 + 35 + 25 \times 3) + (85 + 103 + 44)$$

$$(164 + 22 + 20) +$$

$$(39 + 232 + 69 + 155 + 48) =$$

2000