

math NEWS



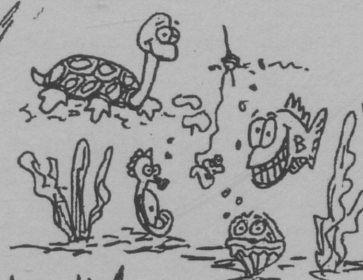
Volume 77, Issue 6

Friday, July 10, 1998

"random doodle art inspired by
water and total boredom caused
by attending lectures"



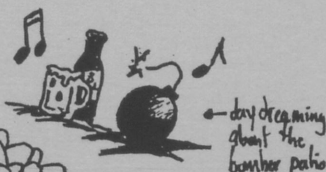
Captain Caveman



happy little
marine creature



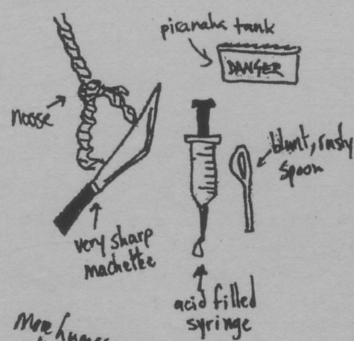
Dr. Moo's great doodle art



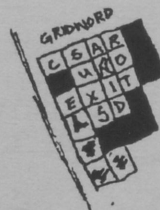
day dreaming
about the
bomber patio



Bird's Death



More humane ways to die
other than sitting in
CS lectures



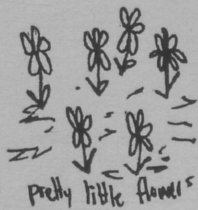
QUACK!
Random duck



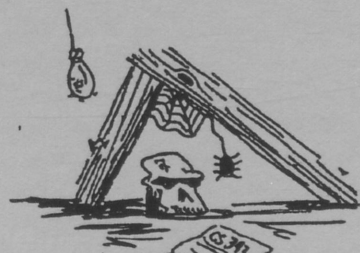
a simple little maze



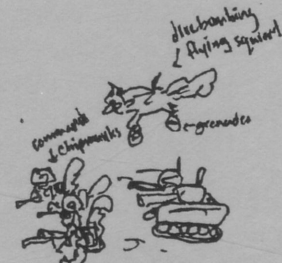
tamarack
Terror



Pretty little flower



what might happen if I
were to fall asleep....



part of the great
squirrel army trying to
take more new territory
from the ducks

Prez Sez

Hi Everyone

Not much to tell you right now. Midterms should be wrapping up so people can begin enjoying the last month before finals.

As many people have noticed, the office has been closed a lot recently. This is because we are really short on volunteers. So, if you want to see the office open more, come volunteer for an office hour. And if you have committed to an hour, please show up. Thanks :)

A lot of people have been complaining about midterms that they felt were unfair or that they were unprepared for. Just a reminder – if you ever have a real concern about a course, [Note he said a real concern. Complaining that your prof has too many nosehairs doesn't count. — CasEd.] come talk to me. Part of my job is to represent you to the administration and stick up for you, so give me some stuff to talk to them about.

Well, hope you all enjoyed Canada Day. Keep on enjoying summer,

Dan

mastHEAD

*If this subhead could sing, it would sing "Da Da Da"
by the European group Trio*

Y'know, I forgot to reply to the Imp'tint's opinion piece entitled "A tree falls on the campus – does anyone care? Or notice?" that appeared a few issues back. Although I don't disagree with much of the article, I do want to point out one error. The author claims that the "bulk of their [MathSoc's] funding is sloughed into making mathNEWS into Waterloo's own edition of *The Toronto Sun*." This is, in fact, incorrect. mathNEWS published only one issue of *The Toronto Numb*, which accounted for less than 8% of MathSoc's budget this term. Since when is 8% the "bulk" of something?

You know, 100% of their funding goes to printing Imp'tint, so I'll leave you to decide what the "bulk" of their budget is sloughed into.

If anyone is planning on buying a 12 or 24 pack case of 341mL cans of Nestea Lemon, Nestea Diet Lemon or Nestea Raspberry, please stop by the mathNEWS office before you do. I've got a 30 cents coupon just for you!

Tonight, we decided to go nuts and have pitas instead of pizza. We laughed, we cried, but in the end, the pitas tasted good. There's no telling what we'll order for dinner at the next Production Night.

Here's the regular mathNEWS gang, along with their answer to the question *What did you secretly put in Greg's pita?* Chris McGuire (A single plum, floating in perfume, and served in a man's hat), Michael Thorsley (A tiny microship designed to detect puns and deliver electric shocks directly to the small intestine), John Swan (My old STAT notes (everything from 230 to 450)), Brian Fox (The answers to all of life's unanswered questions. Wait... he ate it, didn't he? Guess that was a lousy place to hide them...), and, finally, the man with the aforementioned pita, Greg Taylor (Cured ham).

Thanks goes to Sko for the cover, and to Marion at Graphic Services.

Chadwick Severn (Lots and lots of veggies)

lookAHEAD

Now even more helpful!

mathNEWS	
July 10	Issue #6 goes for broke
July 20	Issue #7 production night 6:30pm, MathSoc (MC 3038)
July 24	Issue #7 goes for that bloke
MathSoc	
July 10-24	MathSoc exists
MGC	
July 10-24	MGC exists
Math Faculty	
July 10-24	Math Faculty exists
MEF	
July 10-24	MEF exists
TSA	
July 10-24	TSA exists
ActSci Club	
July 10-24	ActSci Club exists
CSC	
July 10-24	CSC exists
PMAMC&OC	
July 10-24	PMAMC&OC exists
Biz Club	
July 10-24	Biz Club exists (At least until Aug. 31)
Math Building	
July 10-24	Math Building exists
Prime Numbers	
July 10-24	Prime Numbers exists
Granita Machines	
July 10-24	Granita Machines exists
Tic-tacs	
July 10-24	Tic-tacs exists
Beach volleyball	
July 10-24	Beach volleyball exists
Weird Al Yankovic	
July 10-24	Weird Al Yankovic exists
Nestea's with winning labels	
July 10-24	Nestea's with winning labels do not exist

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mathNEWS is normally a fortnightly publication funded by and responsible to the undergraduate math students of the University of Waterloo, as represented by the Mathematics Society of the University of Waterloo, hereafter referred to as MathSoc. mathNEWS is editorially independent of MathSoc. Content is the responsibility of the mathNEWS editors; however, any opinions expressed herein are those of the authors and not necessarily those of MathSoc or mathNEWS. Current and back issues of mathNEWS are available electronically via the World Wide Web at <http://www.mathnews.uwaterloo.ca>. Send your correspondence to: mathNEWS, MC3041, University of Waterloo, 200 University Ave. W., Waterloo, Ontario, Canada, N2L 3G1, or to mathnews@undergrad.math.uwaterloo.ca on the Internet.

Not the MVP of the All-Star Game: Chadwick Severn

Prepare Yourself ... The ACTSCI Club is in Full Force!!!!

Hello everyone!!! Well, it seems as though everytime I write an article, there is something to find out. Two weeks ago it was ranking day, and today is the day most of you ACTSCI students find out about your SOA exam results. After the weeks of studying, the horror during the exam, the "I'll guess B for this one cause I've guessed C enough times" moments, and the "That was SOOOO bloody hard" post-exam gathering, we finally find out how well we guessed on those exams! Well good luck to everyone!!!

Well, since I'm writing this on Monday and nobody will read this until Friday, I'll make a few speculations ... To all of you who attended the Towers Perrin sponsored Weaver's night last night, wasn't that an absolute blast!!! We really reaped the benefits of being an ACTSCI Club member!!! FREE everything!!! Now I just hope most of you are actually sober when reading this!!!! And for those of you who didn't/couldn't attend ... you guys REALLY missed out!!!! Towers Perrin was not only generous but they are a bunch of fun people to be with!!!!

OK, enough about the speculations, let's move on to concrete hard facts that are coming up. Next week, UW's very own Prof. Rob Brown will be giving a talk about the new exam transition rules. Prof. Brown will talk about the conversion rules from the current exam system into the new exam system. He will also talk about how the new exam system will look. I personally recommend "ALL FIRST YEARS in ACTSCI" to attend this talk so that you can choose your SOA exams wisely. These rules are very important to all ACTSCI students since there are only three sittings left in addition to the February sitting! The talk will be held on July 15th at 4:30pm in MC4041. Members will receive FREE refreshments!!!! Look for signs around MC next week for reminders!

The ACTSCI Club has also organized a MATHCAD session for those of you interested. MATHCAD is a mathematical software that is better than MAPLE and very user friendly and WYSIWYG ... and for those of you who forgot what that means, it stands for What You See Is What You Get!!! (And you call yourself mathies!!!!) It is scheduled on July 23rd at 4:30pm in MC1078.

Well, that is it for now ... well that is about it for the term too! We are planning to get one more event right before finals start but it is all tentative at this moment. I will keep you posted though! Until next time ...

Albert Na (Publicity Director of the ACTSCI Club)

A Sad Note!!!!

It is with deep sadness and sorrow that MathSoc announces that Skip's dog, Fluffster has passed away!!!! It appears that he died of natural causes!!!! Most members of the student population are stunned at his passing!!!! A memorial service will be held tomorrow!!!

Geoff Presence!!!!

gradNEWS

Well, hopefully this one makes it in (not that I'm bitter about the last one getting lost or anything.) So what's up with MGC these days? Let's see:

1. **GRAD PHOTO SELECTION:** Next week and the week after we will be having hours to come select which photo goes in the yearbook. At the same time, you can order rings and yearbooks if you wish. The latter two are not essential as there will be other opportunities in the fall and winter. Class photo proofs are also in for those that would like to see them.
2. **SOFTBALL & BBQ:** Come one, come all to the Faculty vs. Graduating Class softball game and BBQ. June 16th at 3pm is when we get started. Location TBA, watch for posters. Rain date is June 23rd same time.
3. **ATTENTION ALL SOFTWARE ENGINEERS:** It has been brought to our attention that you would like something more descriptive than SE as your option on the composite. We are looking at putting something like SoftEng instead, although it may create more white space on the composite. What do you think?
4. **STILL ACCEPTING:** photos from your university years, suggestions, questions, money, compliments, etc. Mail to mgc@undergrad.math.uwaterloo.ca.

Amy "I'm overworked and WAY underpaid" Green

Smart People Untie

Hey mathie! Think you're pretty smart, eh? Smarter than those engineers? Yeah, you are, aren't you? Huh? Huh?

Yeah, we are. We've got all the answers. Here's our chance to prove it.

On July 17th, the Waterloo Quiz Bowl is holding its first intramural trivia tournament. Grab some friends (they don't have to be mathies) and show the other faculties and clubs who's #1! Let's kick some butt!

We've all seen *Jeopardy!* and said, "Hey, I can answer those." Now's let's prove it. There will be questions ranging from Canadian historical figures to leading goal-scorers to hit-single-writers, so there's something up everyone's alley. Did you play School Reach in high school and are dying to reminisce about the good ol' days? This is the opportunity you've been waiting for. Get your buzzer fingers ready and dig out that useless knowledge from the back of your brain. If you've got what it takes, you'll walk home with a prize or two.

The tournament will take place in the Student Life Centre, with the first games getting under way at 1:30 pm Registration costs \$10 for teams of four or more and \$2 per person otherwise. The registration deadline is July 15th.

To register or for more information, send an e-mail to zhzhou@engmail.uwaterloo.ca. (Yeah, he's an engineer, but so what.)

Paul Schreiber

profQUOTES

"So $|S(G)| = 2^q$... don't you find that fascinating? ... That was the most fascinating thing I've ever heard other than that the Scottish deep fry their MarsTM bars in fish batter."

Jackson, C&O 230

"We'll leave the C-64 back in the days of bell bottoms."

Vasiga, CS 241

(sighing) "This is U-G-L-Y and you ain't got no alibi!"

Vasiga, CS 241

"At the end of the lecture, I'll talk about Microsoft testing techniques. You'll get a laugh out of that."

Atlee, CS 246

"Would anyone like to ask me where that came from?"

(silence)

"Damn, okay then I won't tell you!"

Lewis, MATH 138

"Any ideas, any lightbulbs, can anybody read my handwriting? ... is that a vote of confidence in my handwriting?"

Lewis, MATH 138

"I think it's pretty good, don't you? It's probably better than what you drew."

Lewis, MATH 138

Student: "Are you missing a bracket?"

Prof: "Oh God, am I? It's not going to compile, ahh!"

Lewis, MATH 138

"Now watch as I cunningly remove one of those stars there."

Lewis, MATH 138

"Suppose we're brainless, since we are, mostly."

Lewis, MATH 138

[Said on a Wednesday] "Is it Monday or Friday?"

Jackson, C&O 230

"Apart from my handwriting it's not very messy."

Sivaloganathan, AM 250

"psi' not 'c'. Sorry, I feel like I'm going mad here."

Sivaloganathan, AM 250

"This should not make your understanding worse, if it does you're in trouble."

Tuncel, C&O 350

"How do you kick the shit out of a constant?"

D'Allesio, MATH 138

Da Movies Dat MathSoc
Will Be Playing

- July 16th: Good Will Hunting & The Rainmaker
- July 23rd: Wild Things & Palmetto
- July 30th: The Object of My Affection & Picture Perfect

This list could change. To find out which movies will, in fact, be playing during a certain week, simply open your eyes and marvel at all of the photocopied movie posters up on every door.

What SAC sent us

We couldn't make heads nor tails of it:

wAABAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAA4W
AACQAAAAAgAAAJgAAAAADAAAAwAAAAAQAAAD-
MAAABQAAAAOQAAAAHAAAA8AAAAAgAAAAEAQAA
ABwBAAASAAAAKAEEAAoAAABEAQAACwAAAFABAA
MAAAXAEAAA0AAABoAQAAADgAAAHQBAAAPAAAA
fAEABAAAAACEAQAAEwAAAIwBAAA-
CAAAA5AQAB4AAAAeAAAATG9va2luZyBmb3IgRnVuIGF
ZHZlbnR1cmUATWkeAAAAAQAAABvb2seAAAAADgAAAF
bW0eAAAAACwAAAE5vcm1hbC5kb3QAdB4AAAAOAAAAV
bR4AAAAATAAAATWljcm9zb2Z0IFdvcmlQOC4wACBAAA
AHbA/uSevQFAAAAAAFb6DSGjvQEDAAAAAQAAAMAA
AAAAAAAAAAAAAAAAABUZW1wbGF0ZXMAAAAAAAAAAAAgQ
AAEAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA-
IAAAAC1c3VnC4bEJOXCAArLPmuRAAAAAAXVzdWcLhsQ
ACss+a5UAQAAEAEAAAwAAAAABAAAAaAAAA8AAABw
FwAAAKAAAAALAAAAqAAAAABAAAAACwAAAAE-
wAAALgAAAAWAAAAwAAAAA0AAADIAAADAAAAPIA
AAAA5AQAB4AAAAOAAAAVGFtbXkgRWxsaW90dABhA
AACzDQgACwAAAAAAAAALAAAAAAAAAAAsAAAAAAAAA
IGZvcjBGdW4gYW5kIEFkdmdVudHVyZQAMEAAAAgAAAB
BAAAAAAAAAAoAAAAAQAAAFIAAAA-
CAAAAWgAAAAAMAAACyAAAAAgAAAA-
IAAAAKAAAX1BJRF9HVUIE AAMAAAA-
MAAAX1BJRF9ITEIOS1MAAgAAAOQEAAABAAAAATgAA
MABBAEIANQAtADEAMQBEADIALQBCADIANGb-
CAC0ANAA0ADQANQA1ADMANQA0ADAAMAAwADAAT
a2luZyBmb3IgRnVuIGFuZCBZHZlbnR1cmU/DQ1FdmVYIH
bGFjZXMGYnV0IG5ldmVYIGhhZCB0aGUgZ3JvdXAgb2YgcG
ZSBpdCB3b3J0aHdoaWxlPyBD25zaWRlciBiZWluZyBhIFd
V2F0cHVlIGNvb3JkaW5hdG9ycyBvcmdhbml6ZSBXYYXRwdW
IHdvcmlzdGVybmVFRoZXkgYXJlIGEGd2F5IGZvcjBzdHV
LCBtZWV0IG5ldyBmcmlbmRzIGFuZCB1bmlpveSB0aGVyYyB
IHNvY2lhbCBnYXR0ZXJpbmcsIGFuZCBhcmUg3BlbiB0byB
aW5jbHVkaW5nIHRoZSBmb2xsb3dpbm6IFVuaXZlcnNpdHk
aXZlcnNpdGllcyIEFsdW1uaSwgY293b3JrZXJzLCBldGMuIF
dCBhcmUg90IGxpWl0ZWQgdG8pIHB1YnMgYmVjYXVzZ
cGxhY2UgdG8gbWVldCAtIHRoXMGaXMGYSBz2NpYVwZ
ZXN0LiBNYw55IG1lbWJlcnMgaGF2ZSBhIGJlZXIgb3IgdHd

And so on for 8 pages. We really couldn't get this file into anything resembling English. Sorry, SAC! (The web version of mathNEWS will have the real article when we get the text from SAC.)

"What's Happening to my Tuition?"

Students all across Ontario have been asking this question ever since the provincial government announced deregulation of tuition fees for the coming school year. Few have received satisfactory answers. "There have been so many changes lately, it's hard not to be confused about deregulation. We want to help students understand what's going on, and allay some of their fears if we can," says Federation of Students VP Education (and Math student) Robin Stewart. To this end, the Feds will be holding a Deregulation Forum to explain the policies guiding tuition increases and deregulation, and what they mean for students. The forum will be held on Wednesday, July 15th at 5 pm in Arts Lecture Hall room 105.

Stewart will be joined at the forum by UW Vice President Academic and Provost Jim Kalbfleisch, and others. Following speaker presentations will be a question and answer period, where students will have the opportunity to debate with the speakers and have concerns addressed truthfully and intelligently. All members of the UW community are invited to attend.

To increase the number of graduates in high demand technical fields, the provincial government recently said it will allow deregulation of undergraduate computer science and engineering programs at universities who double the number of students accepted into these programs by 2000. Fortunately for Waterloo students, such a massive increase in volume is out of the question. "Since UW already has such high enrollment in these programs, doubling class sizes in such a short time span is unfeasible," says Stewart. Instead, UW said it could increase enrollment in these programs by 30 per cent by 2000, but the government rejected the proposal. "That means that these programs are safe from deregulation, at least for now," notes Stewart.

While undergraduate math students don't have to worry about deregulation just yet, tuition fees for all graduate and professional level programs are being deregulated this year. This means that universities can set tuition to whatever amount they feel is appropriate. Many students across Ontario will be facing tuition increases of up to 150 per cent this September, though "the announcement wasn't in time to be incorporated into UW's 1998-99 fee schedule," notes Stewart.

The provincial government has cut \$529 million in educational funding since 1993. As a result, universities have undergone massive budget cuts, despite ever-increasing tuition. Deregulation allows the province to transfer responsibility for educational funding away from itself.

For more information, contact Robin Stewart at x2340 or fedvped@feds.uwaterloo.ca.

Natalie Gillis
Provincial Affairs Commissioner
Federation of Students

[Sigh, yet another article that doesn't fill up the whole column. I guess that means I get to take this space to offer my opinion on tuition. So here it is: It's too high. Thank you very much. — CasEd.]

USENIX & You

Is that Tk/Tcl or Tcl/Tk?

Students: are you interested in a free trip to attend a conference on Tk/Tcl or Electronic Commerce? The USENIX Association is interested in sponsoring you to attend the 3rd USENIX Workshop on Electronic Commerce in Boston from August 31-September 3, or the 6th Annual USENIX Tcl/Tk Conference in San Diego from September 14-18, 1998.

All you have to do is fill in the grant application form and you might be selected to go. U(W) students have had pretty good success winning sponsorships from USENIX to attend their conferences.

For all the details, including conference programs and grant application forms, visit my USENIX web page at <http://math.uwaterloo.ca/~rblanders/usenix/usenix.html>

Robyn Landers
rblanders@math.uwaterloo.ca
UW's USENIX outreach representative

Top 11 McDonald's™ Promotions For Movies Other Than Mulan and Armageddon

11. **The Horse Whisperer:** The meat in your hamburger murmurs at you.
10. **Grease:** Name of movie is slapped onto every food package.
9. **The Truman Show:** The Burger-Cam!
8. **Fear and Loathing in Las Vegas:** Fear and Loathing in McDonald's™ Playland™.
7. **The Opposite of Sex:** They take the McRibbed™ sandwich off the menu for a few weeks.
6. **Dirty Work:** Food preparers don't wash their hands.
5. **There's Something About Mary:** Burgers with "There's something about that mayonnaise"
4. **6 Days, 7 Nights:** McNuggets™ that take 144 hours to digest.
3. **Hope Floats:** So does the burger.
2. **The X-Files:** Big Mac™ with "Secret Government Sauce"
1. **Lethal Weapon 4:** The "I'm Too Old For This Shit" Happy Meal.

A rare mathNEWS staff collaboration

Cynic's Corner

But software, that through yonder Windows breaks

I've heard rumours that people are reading these articles, so I believe I will continue. After all, there's no shortage of things that go wrong with the world in general ... for example, I use a 286 at home. (No, that wasn't the example of something gone wrong. Though it explains why I spend 3/4 of my day at the University.) On this 286, I use WordPerfect 5.1, as I have never really seen the need to upgrade. But guess what? Apparently I'll need to upgrade soon, as when I tried to open up a WP 5.1 document in WordPerfect 8 (other places are more high-tech than I), the format wasn't recognized.

Hello? Two WordPerfects don't recognize each other? To me, there is something wrong with this picture. Shouldn't software with the same name be compatible? Apparently not. But of course, opening a WP 5.1 document in Word is just asking for trouble, as the bullets go weird and the page formatting gets screwy. (Don't you just love these technical terms?) There's also that automatic correction whenever it looks like you're enumerating a list, writing ellipses (...) plus other checking features. Yetis! So never depend on backwards software compatibility (or any sort of compatibility really, but especially where computers are concerned). And never be in a hurry to upgrade, or you might lose access to all your old files. (Hey, mathNEWS works fine in text form.)

What? Okay, the editor says this is too short to fill out a column, even with additional commentary. Since he agreed with the cynic last time, I'll humour him. (What do you call a columnist who only writes half a column I wonder?) Another thing related to dependability then: strength of the average bookbag. Whether bought on campus or not, there seems to be a real problem when, say, you have two midterms in one day, both requiring large CS books. My bag couldn't handle the strain, so I'm not only walking to the University, I'm now having trouble taking everything I want with me.

The most unreliable thing seems to be the little rings that some straps are attached with. It's amazingly easy to end up bending those out of shape, and the joint fusing them together is either weak or non-existent. Then when the ring comes apart, you're pretty much screwed. Even belt buckles can have rings with a gap like this. Of course, metal tends to be slightly better than tying everything together with thread. One really gets the impression that people are making these things less reliable just so that they can sell more. (And there's a flaw in logic there; or at least, with the people who go back to buy the same thing again.)

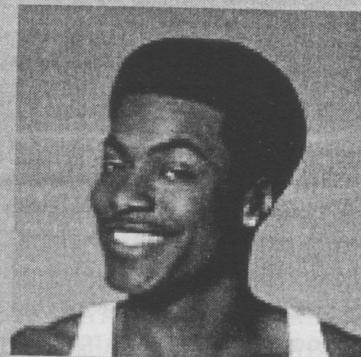
So as an advance warning, here's a list of things that may very well break whatever you haul your books around in.

1. Bowling ball collection.
2. CS texts.
3. Candy bars.
4. Feathers.
5. Helium.

So remember, not all beta versions are advertised as such. Let the buyer beware. Me, I think I'll just go eat a pita now, or something. No mayo.

Greg "hologrami" Taylor

chris ^T_{ucker} awareness week



Are you aware that there's another
wisecracking fast-talking black comedian
other than Chris Rock?

Are you aware that this was the annoying
guy with the weird hair in The Fifth
Element?

Are you aware that he's going to be a wild
and crazy detective in the next Jackie
Chan flick?

You will be!
July 13-17, 1998 is Chris Tucker
Awareness Week!

Hot Dogs!
Drinks!
Chris Tucker-related events!
Watch his death scene from Jackie Brown!

Quantum Loop

Sham was hurrying through the hall when he heard the imagine chamber door open and saw Hal step through. "Sham, BigE says there's only a 43% chance this will work now," he related.

"Well I can't help that Professor Ursion left on a bus before I could talk to him," Sham lamented. "Has he bicycled back yet?"

"Yup," Hal affirmed. "And you have an hour until the detonation in Room 1082 destroys the building."

"I'll intercept Ursion in time then," Sham said confidently. He continued down the hall.

"I'm wondering if we'll see Lynn again," Hal mused. "She had a nice set of ..."

"Hal ..."

"... polygons. Could use a new array of jewelry though ..."

"We don't have time to get graphic about a newed Lynn Kedlist," Sham interrupted. "Though if I'm right she will play a part in this. I just hope I can catch Rick Ursion off guard."

As it turned out, the two professors collided at the next corner. Lynn, who was also there, dropped a stack of papers.

"Rick!" Sham gasped. "No time for password semantics - you need to authorize a cancellation of the current ground floor ALU project."

"What? Why?"

Sham paused. "It's pointless," Sham hedged, glancing at Lynn. "Computer Science is CS, right? But CS can also be Customer Support. That means work on a Helpdesk. Which implies answering phones. But if something is phony, then it's not real, so neither is CS. QED! And if Computer Science isn't real, why waste time on it?"

Rick Ursion paused. "That seems to follow logically," he said slowly.

Lynn gaped. "You CAD! I object!" she cried.

Rick turned. "Don't be object oriented," he admonished. "You're acting even odder than you were the day under the larch

tree."

Sham quickly processed this. "I think she's upset because she's a secret member of the CPU," he revealed. "I've suspected her ever since she identified what sociable numbers were."

"Sociable numbers?" Rick wondered.

"Like friendly numbers," Sham explained. "Three or more numbers whose divisors add up to the next in a closed loop. Such as 12496, 14288, 15472, 14536 and 14264; the divisors of one add up to the next and the last ones sum to the first number. Lynn must have seen some when she read up on divisibility, as all ALU passwords have something to do with that subject. But no normal person would know about these numbers."

"Clever, Sham!" Hal realized. He paused. "So I guess you really can study too much."

Lynn cursed, then recursed. "Well, you haven't foiled my Scheme yet!" she shouted, producing a black box and an assembly of switches. "I can set off the explosion from here! The chairs will be released from their confines whether you like it or not!"

Sham hadn't counted on this. "The explosion will also destroy the building ..." he began. But Lynn had lost control.

"I'm setting it to go off when the countdown reaches an aliquot of 360!" she shouted. She flipped a switch ... but the flip flopped.

"Sham, now the whole University is going to be wiped off the map!" Hal shouted.

Rick quickly blocked Lynn's escape as Sham grabbed her black box. "Set a different aliquot!" Rick Ursion proposed.

Sham's memory swiss-cheesed. "What's an aliquot?" he asked.

Will Sham remember in time to save the University of Mizuloo? Find out in the epic conclusion next issue ...

Greg "hologrami" Taylor

gridCOMMENTS

Happy Friday and my unlimited love to y'all.

Well, either you don't like soccer or you found the last gridWORD hard because I only received two submissions. Now don't worry ... I don't take these things personally. When I was Squizmaster some time ago I think I received a total of 5 submissions over a 3 squiz period. Now that's impressive. But I tried not to take it personally. And I still don't. Apparently it's still midterm season and there was that Canada Day thing so it's understandable there weren't many submissions. Ya know, people studying ... going away for the weekend ... that kind of thing.

Anyways, Claire Bilodeau had an incorrect and "incomplete" submission. (I'm looking over your solution and I swear I can't figure out why you call it a partial solution. Looks finished to me.) The other submission was correct and that belongs to Ian "The Word Guy" Facey so he gets the prize. Congrats, and you can pick it up at the luxurious MathSoc office anytime.

For the gridWORD this time, there is a theme but I'm not going to tell you what it is. I trust you can figure it out on your own. Submissions are due on Monday, July 20th at 6:30pm. Submit to the BLACK BOX or email mathnews@undergrad.math.

Latrell "GridBoy" Fox

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Life in the Slow Lane

Garbage garbage everywhere ...

Hey, everyone! How are things today? I hope everything is fine, and that your midterms have now (finally) come and gone like the wind. (For soon those final exams will come and go like a 3 story house landing on your face.)

Anyways, I have a bit of a beef to share with you this week. Now, normally it's not my nature to complain about something (Hey! I heard that snickering!), but something happened last week that really bothered me. It all started when I arrived on campus around 5 o'clock on Canada Day, having just returned from a mini-camping trip with my family. I was eager to head over to the Canada Day Festivities, because several of my friends volunteered (you guys rock!!) and I hoped to run into them when they had some free time, and then catch the fireworks that night.

So anyhow, after a little wandering, I ran into a couple of friends at the Wet Sponge Tossing event, who promptly doused me with a bucket of water. (Hey, nice to see you guys too!) Soon they, along with several kids (and some of their parents) persuaded me to become the next target. Needless to say, I was soon soaking wet, and I ended up going from just a target to helping to police the event, making sure the kids followed the rules (and giving some of the leaders for the event a well-deserved break). I had basically turned into an on-the-spot volunteer for the rest of the day.

This is the point where things went wrong. After helping to clean up the sponge event when it was over, I grabbed a garbage bag and started helping one of my volunteer friends who had starting to collect the garbage off of the ground. And for almost the entire evening until the fireworks went off, there was the 2 of us (at times it was 3) collecting trash, and feeling more helpless than we had ever felt before. Everywhere you turned, someone else had just dropped a hot dog wrapper, a napkin, a pop can, some cigarette butts, whatever. In fact, we first cleaned up a fair chunk of the property going from the children's events, along the information booth, and near the stack of port-a-potties along the southeast corner of the field. After taking a small dinner break, we started back again, this time sweeping down the small embankment close to the edge of Columbia Lake, working our way up to the food tent. Our new path took us back to the same area we had cleaned up only a couple of hours before. Our hearts sank as we realized that it looked exactly like it had when we started. It was as if we hadn't been there at all. This, needless to say, left a rather sour taste in our mouths.

I guess the point of this little rant is that we really should be more careful about what we do with our garbage. I know, I know, you've heard this a million times—don't litter, don't throw out anything that's recyclable, etc., etc. But this really got me thinking about how much work goes into setting up an event like the Canada Day celebrations, and then having to clean it all up the next day. Now I only worked for a few hours on Wednesday evening (I didn't actually sign up as a volunteer, since I knew my family wanted to see me around that time), but even that made me extremely appreciative of the work that goes into an event like this. And this wouldn't be possible without the help of volunteers. And I know that, if I were to have volunteered, I certainly would not have relished the prospects of cleaning up nothing short of a garbage dump on Thursday morning. The point is, volunteers have enough to do as it is; they certainly

don't need to worry about cleaning up after the rest of us.

Now I am certainly far from perfect; I know there have been plenty of times where I've dropped a wrapper here or there, without giving it a second thought, or thrown out a pop can simply because there were no recycling bins handy at the time. But, thanks to seeing what 55 000 people doing the exact same thing can do to the appearance of a nice area like the Columbia Icefields, I certainly will start to think twice before I drop any garbage anywhere. And I hope you'll do the same.

By the way, I have to admit that outside of the garbage, I had an absolutely wonderful time, and I certainly plan on volunteering fully next summer. As well, I do have to thank the 2 little boys who, after they saw us walking around collecting trash, followed us around for the next 15 minutes collecting any garbage they saw and giving it to us to put in the bags. Without anyone (us or their parents) having to ask them. I wish that more people could follow that kind of example (including myself, a little more often).

Chris "Mr. Subliminal <Litter, and I kick your ass!>" McGuire

Best local newspaper:

- ☐ Imprint
- ☐ Iron Warrior
- ☐ UW Gazette
- ☐ Echo
- ☐ Id
- ☐ The KW Record
- ☐ The Waterloo Chronicle
- ☐ Other _____

Isn't it cute how Imp'tint uses the word 'newspaper' instead of 'publication' so that they can omit *mathNEWS* from this survey on the grounds that *mathNEWS* is not printed on newsprint?

Food for Thought

The Faculty of Mathematics, in response to media pundits claiming that math students have no life skills, introduces the following courses.

EAT 131: Introduction to Eating

This class teaches the fundamentals of eating. Topics include using forks to move food to one's mouth and the proper mechanics of chewing.

EAT 141: Advanced Eating

This course is intended for students with some background in eating. Covers the same topics that EAT 131 does, but in more detail.

EAT 135: Introduction to Drinking

This class covers topics including drinking from glasses and cups. The proper way to transfer liquids into your mouth is emphasized.

EAT 145: Advanced Drinking

This course is intended for students with some background in drinking. Covers the same topics as EAT 135 but in a more advanced way.

EAT 232: Soup

The different methods of eating soup are discussed, such as when to use a soup spoon and when to drink from the bowl.

EAT 235: Drinking Alcohol

This course emphasizes drinking in bars. Topics include overcoming the difficulty of moving alcohol while drunk and knowing your limit.

EAT 251: Chopsticks

The proper technique for eating food with chopsticks is the emphasis of this course. Both wooden and plastic chopsticks will be used.

EAT 281: Italian Food

This course introduces the student to the nuances of eating Italian food. Lasagna, Spaghetti and Manicotti are covered.

EAT 282: Chinese Food

This course introduces the student to Chinese food. EAT 251 is a prerequisite.

EAT 283: Buffet

Topics of discussion include how much food to put on your plate and how many times up to the buffet is too many.

EAT 345: Straws and Umbrellas

Continuing from EAT 135, this course covers the use of straws and what to do with the umbrella served with some drinks.

EAT 351: Spoon Theory

This course emphasizes the differences between the soup spoon, dessert spoon and the tea spoon, and the correct time to use each.

EAT 361: Forks 1

This course is the first course in a two part course on forks. The differences between dinner forks and salad forks is discussed.

EAT 362: Forks 2

Continuing from EAT 361, this course introduces the dessert fork and the seafood fork.

EAT 371: Fun with Knives

The differences between a butter knife and a steak knife are emphasized, along with the proper way to use a jack-knife when in a pinch.

EAT 381: Appetizers

Topics include whether to nibble on appetizers or to eat them whole, and the quantity of food one should eat before the main course.

EAT 383: Dessert

This course covers techniques in eating many different kinds of desserts. Foods discussed include ice cream, pies (of many different types), cake and pudding.

EAT 441: Eating Mishaps

Topics include what to do when food falls in your lap and onto the floor. When and how to apply the 'Five Second Rule' is covered.

EAT 442: Eating by Candlelight

This course teaches the student to eat in low-light conditions.

EAT 443: Dinner Conversation

This course introduces talking while eating. Achieving a subtle balance between eating and talking, and what dinner topics to avoid are covered.

EAT 481: Getting People to Cook for you

What good is eating if you can't cook? Other courses teach cooking skills; this course teaches you how to manipulate cooks to cook for you.

EAT 493: Issues in Eating

This discussion course is designed to stimulate and foster a continued interest in eating after graduation. Questions discussed include whether one should eat Chunky's with a fork or a spoon.

Vince "The Knife" Garofalo
Scott "... " Reynolds

Spermatikos Logos #4

There was some confusion about last issue's logic problem. The first problem had some incorrect clues which we were glad to fix both through e-mail and on the web site. Our apologies to those of you who attempted the problem without the fixed clues. The other source of confusion was the due date for submissions. We all hope you all got some good laughs for that brain spasm.

Correct submissions were received by Claire Bilodeau, Greg 'Hologrami' Taylor and Beth Wood. Thanks to Ian 'The Word Guy' Facey for his effort. By random selection, the prize goes to Claire Bilodeau. Swing by the MathSoc office and pick up your prize.

Solution to Last Issue's Puzzle:

The file folder labels are on the top and the exam booklet is on the bottom.

CS 134 STAT 231	STAT 230 MATH 146	MATH 147 MATH 247	MATH 245 MATH 135
MATH 135 MATH 237	MATH 247 CS 134	PMATH 360 MATH 136	STAT 231 MATH 235
MATH 145 STAT 230	MATH 235 MATH 137	MATH 136 MATH 148	MATH 148 MATH 138
MATH 138 MATH 245	MATH 237 MATH 147	MATH 146 PMATH 360	MATH 137 MATH 145

This Issue's Problem:

Our group of friends have gathered together to enjoy a wonderful lunch together at the Right Angle Café, the MC's lovely C+D. Amy, Beth, Calvin, Dave, Edmund and Fiona had this menu to make their selections from:

- Muffin - 65¢
- Donut - 50¢
- Cookie - 60¢
- Jamaican Patty - \$1.00
- Samosa - 85¢
- Bagel with Cream Cheese - 70¢
- Large Chocolate Milk - \$1.15
- Meatball Submarine - \$3.50
- Fruit Salad - \$1.25
- Chiana - \$2.95

- Ginger Ale - \$1.10
- Chicken Noodle Soup - \$1.50
- Twix Bar - \$1.25

Can you figure out, with the use of the following clues, what each person ate and how much they spent on lunch?

1. Only one person bought one item. Only two people bought three items. No one bought more than three items.
2. Edmund is a vegetarian.
3. Amy spent less than Fiona, but more than Beth when they went to buy lunch.
4. None of the men bought drinks.
5. The person who bought the least did not spend the least money. Neither person who bought three items spent the most.
6. The total amount spent on lunch was \$17.00.
7. The six people (in some order) are Amy, the person who bought one item, the person who spent \$2.10, the male vegetarian, the person who bought soup and the person who spent the least money.
8. No two people spent the same amount.
9. Two people are vegetarians and one opted for a meatless meal.
10. The least difference between two consecutive amount was 10¢.
11. There is a vegetarian of each gender and a person who bought three items of each gender.
12. Fiona only bought one item.
13. The least amount spent was \$1.95. The most spent was \$4.20.
14. When Calvin bought his three items, he spent the second least amount of money.
15. The largest difference between two consecutive amounts spent was 85¢.
16. Every item was bought, but only once.
17. Only two amounts spent end in 5.
18. The person who bought a large chocolate milk also bought a fruit salad.

You know when submissions are due. There will be a prize. Should there be confusion concerning this problem, don't hesitate to e-mail us. As always, good luck!

Andrea Knowles (aknowles@artsmail.uwaterloo.ca)
Gigi Garbett (ngarbett@artsmail.uwaterloo.ca)

mathNEWSquiz #5

Step into my parlour ...

Greetings, all!! How's life treating you? It's been a real hectic past couple of weeks, as was evident by the number of Squiz submissions I got—there were only 2 submissions. Oh, well, I guess that's life. Oh, and by the way, congratulations to Roger Clemens on getting career strikeout no. 3000. You'll notice that we've set aside a little ditty on that accomplishment.

So, without further ado, here are the solutions to last issue's Squiz:

Music Lyrics: 1) Max Webster, "Diamonds Diamonds;" 2) Corey Hart, "Never Surrender;" 3) Tom Cochrane, "Life is a Highway;" 4) Barenaked Ladies, "The Old Apartment;" the overall theme was (surprise, surprise) Canadian artists.

O, Canadiana: 1) 2 340 000 square miles; 2) 1970; 3) the Progressive Conservative Party (including those established by the party's predecessor, the Liberal-Conservatives); 4) Iqaluit; 5) Sudbury, Ontario.

Television Journalists: 1) Knowlton Nash; 2) Barbara Frum; 3) Geraldo Rivera; 4) Sam Donaldson and Dianne Sawyer actually co-host the show; 5) Sandie Rinaldo is the chief back-up to Lloyd; however, Wei Chen, among others, have occasionally done time as anchor.

Prime (Minister) Requisite: 1) 1993; 2) Alexander MacKenzie; 3) Sir John A. MacDonald; 4) Louis St. Laurent; 5) William Lyon MacKenzie King.

So, here are the people who contributed solutions, and the score they received: James Dale scored an impressive 17 count, but not quite impressive enough to beat **Nick Taylor** and his 19 points! Congratulations, Nick! Your prize can be picked up in the MathSoc office.

And so, ladies and gentlemen, may I direct your attention to the centre ring, where it is once again time to play the Squiz!!

Music Lyrics

1 point for identifying title and performer, 1 point for identifying the overall theme

1. "Buddy, you're an old man, poor man,
Pleading with your eyes gonna make you some peace someday
You've got mud on your face
You big disgrace
Somebody better put you back into your place."
2. "And I stood arrow straight
Unencumbered by the weight
Of all these hustlers and their schemes.
I stood proud, I stood tall
High above it all
I still believed in my dreams."
3. "When I was grown to be a man
And the Devil would call my name
I'd say, 'Now who do ...
Who do you think you're fooling?'
I'm a consummated man
I can snatch a little purity."
4. "Still looking for that blue jean, baby queen,
Prettiest girl I've ever seen
See her shake on the movie screen
Jimmy Dean"

Welcome to the club, Mr. Clemens

1. Who was Roger Clemens' 3000th strikeout victim?
2. How many other pitchers have managed to obtain at least 3000 strikeouts in a career?
3. Unfortunately, Roger is only at the halfway point to catching the man with the most strikeouts over a career. Who is that pitcher, with 5714 career strikeouts?
4. Of the members of the 3000-strikeout club, Roger holds the record for the most strikeouts in a single game. How many strikeouts did Roger get to hold that distinction?
5. Roger is the only member of the Toronto Blue Jays to make it to this year's All-Star Game. Who is the only member of the Montreal Expos to make it this year?

This category takes presidents!

1. What U.S. president promised "a full dinner pail?"
2. As we all know, George Washington was the first president of the United States. Who was the second?
3. What man was both the 22nd and 24th president of the U.S.?
4. This president of the U.S. was the only one not to be married. Who was he?
5. John Adams, Thomas Jefferson, and James Monroe all died on what day (excluding year)?

Advertising Slogans

Name the product or company that use each of the following catch phrases in their advertisements

1. "Get the most for the least."
2. "Well, it's no ordinary breakfast."
3. "NOOOOOOBODY!!"
4. "Save some of that for the sequel!"
5. "The loudest taste on Earth."

Well, that's it for this week. Please, please, please submit your solutions by placing them in the BLACK BOX or by e-mailing them to me at cjm McGuire@undergrad.math (please?). Good luck, and happy Squizzing all!

Chris "The Subliminal Squizmaster" McGuire
John "The Pseudo-Expert" Swan

Why you should submit your gridWORD, Squiz, and Logos solutions:

- Cuz you could win a C+D gift certificate worth over two dollars and ninety-nine cents!
- Cuz you'll see your name in print! Show all your friends!
- Cuz you'll be using the BLACK BOX anyway to dump off some profQUOTES

GRIDWORD

1	2	3	4		5	6	7		8	9	10	11	12	13
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66				67			68				69			
70							71				72			
73							74				75			

Grid Clues

Across

- Proof of event attendance
- Day of the wk.
- Kind of title
- Rabbit
- Possesses
- Goes with 71 Across
- Russian sea
- Midget
- Bring up again
- AC/DC tune
- Hour, for example
- Golfer Dawn — Jones
- Shocking critter
- Crude
- Can perform
- Bum
- Stratford's river
- Goes with found
- Defend
- Spectacles
- Edgar the poet
- Nearby gorge
- Eat away
- Toss
- A defeat
- Askew
- They don't grow these in Newfoundland

- US cable channel
- Capture
- Estuary
- District
- Blue Jays slugger of the past
- Commercial song
- Stan or Bruce
- Fetish
- Get
- Fuel
- Ash containers
- Final product
- Paintings, for example
- Slime

Down

- Ayatollah's predecessor
- Weight allowance
- Russian mountains
- Phone company
- "Saved by —"
- "Skipper" actor Alan
- Defunct sports league
- Tidbit
- Drink extra
- Young bull
- Hoofed creature of the Americas
- Medical procedure
- Take up again
- Cry
- Prime M. Pearson
- Legend
- Confine
- Caucasian language
- Sport with horsies
- Type of fossil
- Feminist leader of the past
- Old French coin
- Blessing
- Major constellation
- Russian news agency
- Attached by stitches
- Superior in size to all the rest
- One who governs when the guy in charge can't
- Never, in Berlin
- Military rank
- Collection of people
- Airs opinions
- Hamitic language
- Olympian Korbut
- End
- Famous architect Saarinen
- Alphabetic sequence
- Speech defect
- Abner