

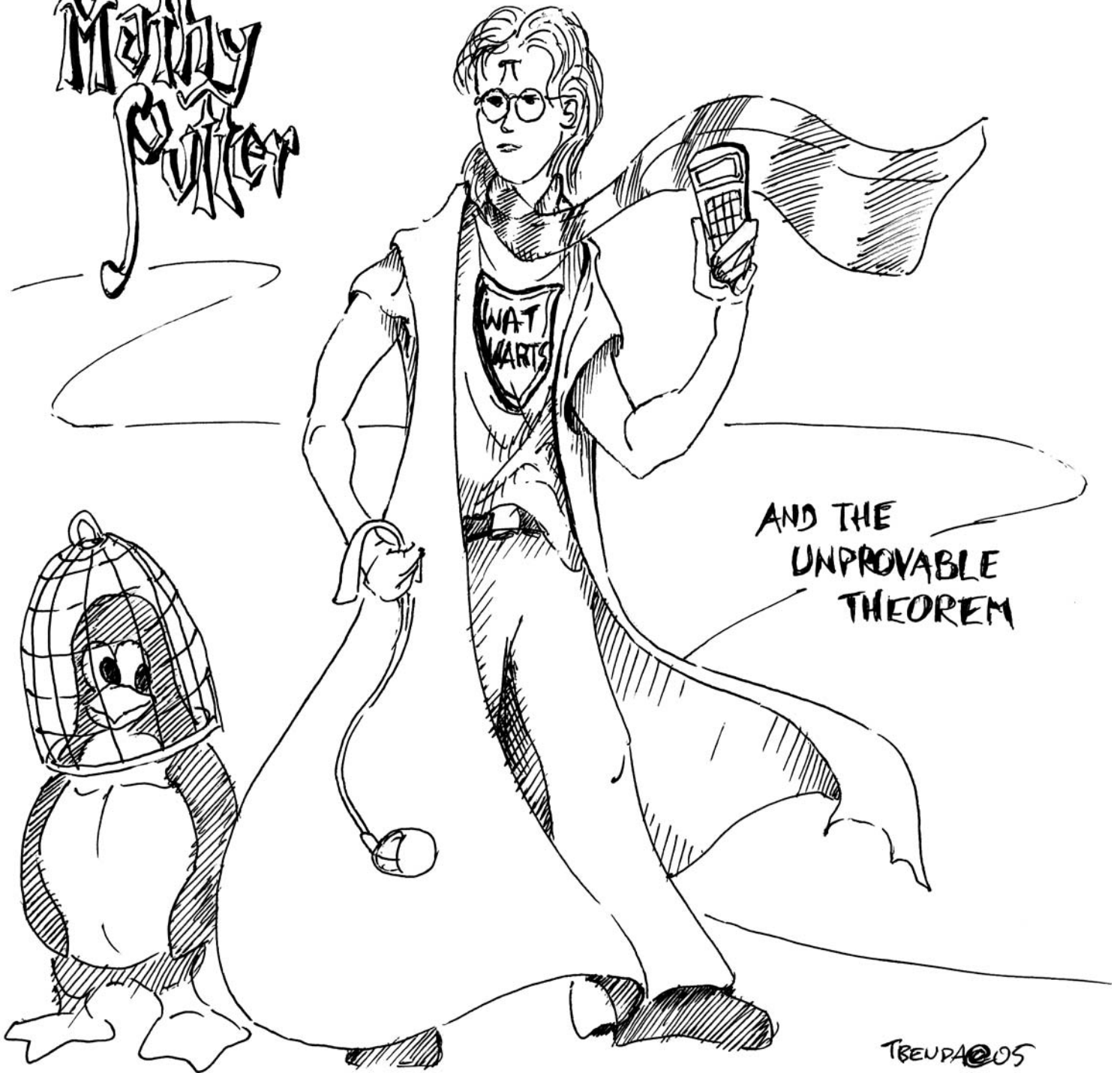
math

NEWS

Volume 99, Issue 5

Friday, November 18th, 2005

Mathy
Putter



TREUPA@05

lookAHEAD**mathNEWS**

November 18	Issue #5 drifts into the halls
November 28	Production night #6 6:30PM, MathSoc (MC3038) All are welcome! ESPECIALLY FROSH!
December 2	Issue #6 prepares for exams

Math Faculty

December 5	Lectures End
December 8	Exams begin
December 19	Fees for Winter term due
December 23	Unofficial grades for F05 released

MathSoc

Thursdays	Movie Nights, 7:00 PM, MC 2066 2 movies, 2 dollars!
November	Election nominations open

Math Grad Committee

Wednesdays	Pizza Day! Buy cheap pizza to support the grads!
December 1	Last day to file "Intent to Graduate" for Spring Convocation, if studies complete

CECS

December 9	Last day of employer interviews
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Student Awards & Financial Aid

November 22	Last day for Confirmation of Enrollment form
December 15	Last day to submit Continuation of Interest Free Status forms
December 17	Last day to pick up loans

Miscellaneous

November 19	K-W Santa Claus Parade
November 26	Christmas lights go on in Victoria Park

Anyone Up For A Marathon?

No Time and No Sleep Make Alex Something Something

So, for those of you who don't know, every term the Mathematics Society keeps the MathSoc office 24 hours a day for the week preceding the end of classes. Now, besides the obvious advantage of being able to photocopy past exams at a mere 5 cents a copy, you can come in to purchase novelties at all hours of the night (even MathSoc toques).

Picture this scenario for a moment: You're wandering through the math building at 3:30 in the morning, you just finished a particularly difficult computer science assignment, and you feel like studying for one of your upcoming finals. You can drop by MC3038 to look over copies of old exams or maybe play some video or board games. Nothing better to let off some steam in the early morning. Maybe not the best to help you in your exams, or maybe it is.

Regardless, beginning this Wednesday morning the MathSoc office is going into 24hour time. Muhahaha. So much time to plan nefarious schemes. There's a signup sheet on the door of MC 3038 if you'd like to lend a hand. The more the merrier.

Professor Office Manager Dude

Math Grad Committee Social Events

More fun than a barrel of monkeys!

Hi again, there are two more great social events for MGC left this term. I'll even give you a preview of what's happening next term if you make it to the end of the article! I hope everyone enjoyed the Casino trip; much money was won and lost, and no one got kicked out of the Casino!

Pimps (CEOs) & Hos Night

Pimps/CEOs and Hos night has been moved to Thursday, November 24th at the Grad House (just north of South Campus Hall). Since we'll all be grads soon, and some of us may even be here for grad school, we might as well get a sneak preview of grad students' favourite hangout! We will be in the Green Room (on the main floor) from 5 PM to 9 PM. Cover is \$2, and we will reimburse you \$2 as soon as you get in if you are graduating this year. At 9 PM, there are four excellent bands playing, and you are welcome to stay and watch the bands after our event.

Don't forget to dress up as a Pimp/CEO or a Ho. There will be finger foods provided, and a cash bar (Grad House has an excellent selection of drinks). See you all there!

Dooly's Night

Can you play pool? Want to learn? Want to win a prize? Of course you do! Dooly's has some great pool tables and a nice relaxed atmosphere, perfect for the break between classes and exams. Dooly's is located at University and Weber, and we'll be there from 4 to 8 on Monday, December 5th. Come on out and have some fun (and wow everyone with your pool skills, or lack thereof) before your second-last set of exams ever! Wheeeee!

MGC Award

The MGC Award is given to an individual going into his/her last year of study in the Math Faculty. It is a cash prize of \$500 and more details can be found at http://www.adm.uwaterloo.ca/infoucal/AWARDS/upper_yrs_math.html. It is worth applying for as few individuals actually apply.

Next Term

As for next term, when all our fellow off-stream grads are back, we have another bunch of great events planned. There will be a Brick Brewery Tour, a Ski Trip, possibly a repeat performance of the Casino Trip, a Pub Crawl, and possibly some kind of Paintball/LaserQuest event. Next term is also the annual Grad Ball, and more information about that will be forthcoming. As always, if you have any ideas for more social events or want to help me out with anything, send me an email at dkchisho@uwaterloo.ca.

Thanks for a great term so far, see you at Pimps & Hos!

Diana Chisholm
MGC Social Director

"I have a limited number of contagious diseases."

Furino, CO 350

"We don't want to be misled by potential terminology!"

Forrest, MATH 147

"This is going to be like magic. The engineers think you're magic anyway."

Furino, CO 350

PREZ Says

Only 2 weeks left — wow

I can't believe the term is almost over, it feels like only yesterday that frosh week ended.

As per my normal style of KISS (keep it short stupid) here are the goings on:

1. Thanks to everyone who came and contributed to charity ball, about \$2000 was raised for charity
2. Executive positions for the Winter/Fall 2006 will be open on Monday, and will be open for 2 weeks
3. The AGM of the Mathematics Society will be held on November 29th, anyone who wants something on the agenda should e-mail me by Friday
4. If anyone has questions about the announcement from the School of Computer Science (occurring later today), please do not hesitate to contact me
5. If anyone knows the whereabouts of the log, again, please e-mail me

Only one more article left. *sniff*

Michael Tersigni
President Fall 2005

Get Involved; be a director!

Apply early and apply often!

Are you interested in becoming more involved with MathSoc? Are you a creative person, or if you have some ideas on how to improve your favourite (or least favourite) aspect of the society? Need more responsibility to spice up your resume?

If you answered "yes" to any of the above, or you simply want to be a director for either W06 or S06, I want to hear from you!

If you want to be Charity Ball, Computing, External Affairs, First Year Affairs, Internal Affairs, Athletics, Movies, Novelities, Office Manager, Postings, Publicity, Resources, Social, or Website Director for either Winter or Spring 06, then pick up an application form in the black file folder outside MathSoc (MC 3038), fill it out, and then submit it at the office to the VPAS's mailbox. Directors are appointed, not elected, so you are saved the trouble of running a campaign! It could hardly be easier.

To learn more about the responsibilities of being a director, check out the Society's policies at <http://www.mathsoc.uwaterloo.ca/pinkbook/policies200407.pdf>.

Kaitlyn "Half-pint" Holman
VPAS, S06

"[You guys are] true geeks, [you'd] prefer interfacing with a computer than talking to a human."

Selby, CS 350

[In response to students complaining about midterm marking] "This is the equivalent of being Canadian and bitching about the weather, 'It's too damned hot in the summer' and 'It's too damned cold in the winter'"

Selby, CS 350

"I'm pretty out of touch with Windows, I think the last one I used was '95 which sucked bad."

Selby, CS 350

VPAS Sez

The end is near!

A big thank you to Shirley Chen, the wonderful Charity Ball Director who organized this year's Charity Ball at Waterloo Inn. She's put in a lot of work and from the reviews I've received, a lot of people had a great time and tons of money was donated to help others in need.

Special thanks especially to Apple Computers for donating a 60 gig video iPod, EA Games for donating games, The Dean's Office, Paul Royston for getting us some sweet Google t-shirts and Math faculty Turtlenecks, Derek Yuen for designing the poster, and Bill Gates for having such geeky writing (Bill signed a signature pink tie just for Charity Ball). Also, a large thank you to all those who donated prizes, and/or showed up. And if you didn't show up, no worries — there's always next year.

Since the end is near, this means **Pints with Profs** and **Office Marathon!** Pints with Profs will start at 5 PM on Nov. 28th at the Bomber. Invitations will be available in the Math Society Office starting today. See if you can get your profs to buy you something to drink before you kick-ass/get your ass-kicked on the final. Or, invite them out and show them that you care. It may help when you get a 46% and that beer you bought your prof could be the difference between a pity pass or getting 46% on your transcript.

Last but not least, the Office Marathon. The office wants to stay open for over 200 hours straight, and we need your help! Drop by and say hi. Even partake in my wonderful office pool on which office manager will crack first! The winner will get a sundae!

It's been a hell of a ride so far. I love my job and I love the people I work with, but alas it's almost time to say good-bye and try something new. Hence, it's time to start asking people to be my successor. So, if you like managing the day to day operations of the Mathematics Society, and/or enjoy enslaving about 12 people for a term (or two) to do your bidding, apply to be Vice President, Activities and Services for Winter/Fall or Spring 2006. If you have any questions about the position feel-free to e-mail me at vpas@mathsoc.uwaterloo.ca, or check out the Mathsoc Website, <http://www.mathsoc.uwaterloo.ca>. I hear there's a nice job description there.

Elaine Wong
Vice President, Activities and Services
Winter/Fall 2005

NOMINATIONS WILL BE OPEN!!

If you would like to be a part of the Winter & Fall 2006 MathSoc Executive, grab a nomination form outside the MathSoc office (MC 3038) starting Monday, November 21 at 10:30AM, fill it out and bring it back to the office.

Make sure that all the people who nominate you are valid to nominate you (that is, they didn't get their MathSoc refund and they actually are Math students). If you are unsure, it might be a good idea to get a couple of extra nominations to ensure that your nomination is still valid.

The nomination period will extend from November 21, 2005 to December 2, 2005.

If you have any questions, e-mail cro@mathsoc.uwaterloo.ca

Exambank Raffle Extravaganza

How to turn a midterm into an mp3 player

Hopefully most of you have finished your midterms by now and have gotten them back. Congratulations. You now have lots and lots of paper. What are you going to do with all this paper? How about submitting it to the Mathsoc Exambank Raffle Extravaganza and winning FREE STUFF?

For those of you who don't know, the Mathsoc Exambank is a treasure trove of past exams that you can peruse to get an idea of the format of an exam in a particular course, or the type of questions the professor may ask. We have exams from classes in every department in the faculty, and some from outside the faculty as well. We are currently trying to expand the Exambank since a lot of the exams are outdated.

Here's how it works: Bring in all your midterms to the Mathsoc Office (MC3038) anytime between now and November 23 (next Wednesday). If you bring us a midterm we don't already have, you get **3 raffle tickets**. If you bring us a midterm we already have, you still get **1 raffle ticket**. The tickets will be entered into a draw to win the grand prize of a **spiffy new MP3 player**. We are also raffling off **at least 5 gift certificates valued between \$10-\$20, to Future Shop, HMV, and Galaxy Cinemas**. The exact number of gift certificates to be raffled will be determined by the number of exams we get. So the more exams we have, the more prizes there will be.

The midterms don't have to be from this term — tests from previous terms will be accepted. We only need a copy, so you will get the original back. If you prefer, your answers will not be included in the Exambank, so you don't have to worry about people seeing how you did.

The more midterms you bring us, the more chances you have to win. It's that simple. Tell your friends. Tell your enemies. Remember, you only have until November 23rd (next Wednesday), so bring them in soon! Who knew that midterms could be worth something other than pain after all?

Carol Tam

Resources Director, Fall 2005

resources@mathsoc.uwaterloo.ca

WE LOVE FROSH!

At least the ones who write for mathNEWS

This article really does go out almost exclusively to frosh, but hey, if you're a second year student and haven't come out to a production night yet, there's one last chance for you to make it! Back to the real point of this article: frosh *can* make our next production night, as there's no crappy mid-term for you to worry about that evening. So, we're hoping that a whole bunch of you will show up on November 28th for a night of awesomeness!

The Editors

**If you were at Production Night,
this space just may have been
yours to fill!
Just look at how much there is
here! A joke would have fit
perfectly!**

READING WEEK and Building Closures

Final proposal for Reading Week

So last issue I reported to you about the reading week proposal. Here is the final proposal that WILL be going to Senate at the next Senate Meeting:

- The 5-day Winter Reading Week occurs in all faculties
- There will no fewer than 2 study days (excluding Saturday, Sunday, and holidays) between the end of classes and the beginning of examinations, and the university will attempt to schedule a maximum of 5 study days when possible (which may include Saturday, Sunday and holidays)

THIS IS YOUR FINAL CHANCE TO HAVE YOUR INPUT HEARD ABOUT READING WEEK!!! If you want a reading week, then tell me. If you don't want a reading week, then please tell me. If you are indifferent, then tell me.

The arguments for the change are that we get a full week of vacation during February. Although we don't read during the week, no one really does unless they need to catch up. I could have used the extra time to catch up during February on many occasions, and I have been here for four winters.

The arguments against the change are that we lose the exam study days which are very useful during pre-exam period. When we receive our more than two study days we will lose exam days and hence exam slots to write in. This will cram the exam schedule.

If you have any thoughts on this matter please email me.

There is an idea floating around campus that buildings on campus will be mostly locked at night. That is, most doors will be locked at night and one entrance will be open for access. I was wondering what your thoughts are on this. There are many reasons for these closures: thefts, vandals and if necessary it can be exceedingly difficult to close buildings on campus. It took four hours to lock down an engineering building.

If you have any other questions or concerns, then feel free to email me.

Adam Felix

Math Student Senator

Math Feds Councillor

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The editor(s): Mark Toivanen, Emerald Kushnier, Chris MacGregor

Sensible Defaults for student.cs

What should they be?

Currently, the shell environment in the undergrad environment is kind of lousy. If all goes well, all new accounts in the student.cs environment will be created with more sensible defaults:

- tcsh as the default shell instead of csh
- A prompt that includes the current working directory. Specifically, the string will likely be: `prompt="%M:%~# "`
- Line editing mode defaulting to Emacs-style instead of vi-style (where you have to switch modes to edit your command line)!

In addition, the school of CS is considering switching to bash in the future (but this is a bigger change than going from csh to tcsh).

These changes are already in the works, but we (actually, I) would like some feedback. Specifically, I would like to know:

- Whether you oppose any of these changes and why
- Additional sensible defaults that would make working in the shell environment better
- Whether the prompt string makes sense to you. We would like to keep the prompt informative, but also keep it a reasonable length. In particular, how long does your current working directory get for course work?

Please send your comments/suggestions/questions to pnijjar@cs.uwaterloo.ca. Particularly useful would be changes which would help make the environment better for first and second year students new to UNIX. There's no guarantee that CSCF will implement your changes, but getting information about what's working and what isn't is the first step to improving things.

Paul Nijjar

mastHEAD

5th edition

Well, this should be the last issue this term where we don't have access to most of the frosh, as first year mid-terms are FINALLY OVER! For all you frosh, here's hoping it went well and that you're coming out for our next production night on November 28th at 6:30 in MC 3038! </shameless plug>

So, in response to the CCC spamming the campus with Porn Nation flyers, we decided to ask our writers: Which nation is the Porn Nation? Eric (I'm pretty sure it's either Germany or Japan), Math.Random() (My bedroom... oh yeah!), ShearedSheep (The Kingdom of Heaven — you just know Byron did it too), Jenn (National Velvet), Michael Perkin (Iran, look at all the ankle they show), Val (Is the place in my pants really a nation?), Angelo (CS135 because it takes all that should be sacred with CS, then violates it. Plus it is led by a 70's porn star), Anton (Who cares about the name. What are the GPS coordinates?!?), DanS (Pornsylvanias), Kaitlyn "Half-pint" (Burnination... I got nothing), π (Haiti, they're very poor).

Thanks goes to Campus Pizza for putting up with our crazy orders, and to teh ladies [And gents! — statsEd] at Graphic Services. Without you, we wouldnt be here.

Mark "Beatlemaniac" (Kenya...do it?)
SheepNinEd (Dunno, where's Ron Jeremy from?)
StatsEd (The interweb!)

4-Way Cross Campus Capture the Flag

Now with 27% More Mayhem

4-Way Cross-Campus Capture the Flag is back this term, running this Friday November 18th starting at 7:00 in RCH 101. For those of you new to the tradition, here's the Coles notes version: One Friday night per term, we divide the campus inside of ring road into four "territories" using a complicated system of yarn and duct-tape. After a meeting to make teams and skim over the ground rules in RCH 101, we use the entire area for an enormous 4- way game of capture the flag. The rules and a tonne of other fun stuff can be found at our website, http://engsoc.uwaterloo.ca/www/evn_ctf.php, and for anything else feel free to contact your math CTF Guardian, Peter, at pccaron@uwaterloo.ca.

So bring a friend and join us, rain or (moon)shine, for a night of CTF mayhem.

PC

My Brain Implodes

As I search for some words that make sense;
my mind bounds about like a frog.
It twirls and whirls about,
and you cringe as this verse starts to hurt.

M. Perkins

2006 Math Grad Yearbooks

On sale Wednesdays 11am - 1pm
outside the C&D (with pizza)

- \$40 basic book
- \$5 cover personalization
- \$10 shipping in North America

Cover personalization available
this term ONLY! Order now!

Send us your photos
mjgbook06@gmail.com

Horrorscopes

Accounting

As you prepare for yet another job auditing ENRON and doing Bill Gates' taxes, try to cram as many formulae as you can into your head. In case Quicken ever fails, you want to be able to do all those calculations with a simple, old-fashioned calculator.

Your lucky number is 1 ugly plastic visor for your birthday.

ActSci

Now that the horror of SOA exams is over, you can get back to the horror of your regular classes. I hope all the studying and money was worth it to be certified. Or certifiable. Whatever. Those happy pills will help you get through the day, but what will you do the rest of the week?

Your lucky number is the number of tests you had last week.

AMath

Travel to the land of Molten Core to fight the mighty Ragnaros. There you can gain +5 stealth and ++ obscurity. Don't understand this? Neither do I. The dungeon master knows, and if you can solve this skill-testing question, he will tell you. What is big, empty, and rife with fortune-telling ambiguity?

Answer: Your lucky number.

C&O

Be a good mathie boi (or gurl) and prove that nothing can be solved in polynomial time by using psychology. Don't ask me how, you are supposed to fill in the blanks, not me. Just remember that the mind is an amazing thing, but some people's minds are not very quick.

Your lucky number is $O(n^n)$.

Computational Math

Hey, acting sounds like fun! Let your creative side shine, no matter how small it is, by joining FASS. The analogies you can draw between matrices and Shakespeare are innumerable, so think of it as research for your thesis.

Your lucky number is $>50\%$ math participants.

CS

Polling a cross-section of CS students (whoever was in the comfy at time of inspiration), *mathNEWS* has discovered that a mere 22% of you actually play WOW. Where do all the jokes come from? Maybe you aren't as geeky as we all think. This week, do your best to prove my assumptions wrong.

Your lucky number is infinitely more impressed ladies than last week.

Double Degree

Even though you are getting two degrees, you find yourself using all your business meeting skills to persuade others that you know enough to graduate once. Put those skills to better use by schmoozing CS guys; one day they will be big businessmen and will hire you to deal with people because they can't.

Your lucky number is 2nd VP of communications.

MathBus

The best way I can think of for you to be lucky this week involves getting a corporate sponsor: "This good fortune brought to you by RIM!"

ES will accuse you of selling your soul. Call them a smelly hippie.

Your lucky number is one logo on the back of your shirt.

MathPhysics

Your first exam will be cut short by a fire alarm. And your second. And... Oh, just don't show up to any of the rest. Standing outside in the cold is no fun when you have formulae of kinetics

rolling around in your head. Lying in bed is more productive.

Your lucky number is 100% assignments, 0% final exam.

Math Sciences

After testing all of the programs UW Math has to offer, you conclude that Macleans magazine is being bought by UW administration. Really, it's a conspiracy by the alumni association to keep the prestige of their degrees. You may not thank them now, but you will when even a general degree is worth more than a PhD from Brock.

Your lucky number is 4 minors and no majors.

Operations Research

The stars have suggested to me that there may be a way to apply your skills in portfolio optimization to drinking. Cook up your master plan and sell it to Engineers.

Of course, they may not like a plan that doesn't merely involve massive amounts of beer, but they'll come around when you mention how much money that could save.

Your lucky number is zero to drunk in \$20.

PMath

The upcoming SASMS will inspire you to share your absolute knowledge with all the inferior mental specimens around you. If they tell you to stop, just talk louder. The human race can only grow if people like you continually remind everyone else how much better you are than them. Don't blame me when you are swimming in the dumpster out back.

Your lucky number is zero earthlings who can prove you wrong.

SoftEng

Oy, with the poodles already! Finals are approaching, and you have to work out a plan to study for five classes in five different disciplines. Then you have your 6th class (SE666) which tries to tie the others together, but fails miserably. Ever thought of picking one of those five and sticking to it?

Your lucky number is <2 classes from each department on campus.

Stats

Tired of the lame jokes the Stats Club uses to rope people in to their cult? Don't be, it's just the right club for you. If you read *mathNEWS* and hang out in the MC, you don't belong in a night-club, you belong in a group of geeks who like calculating the probability of getting a date.

Your lucky number is nCm people who are exactly like you.

Teaching Option

The psychology of children course you have to take is teaching you just how messed up those kids are. I mean, how could they not agree that 8 AM is the best time to do math? And how anyone could put up with condescending elementary school teachers is beyond me. Remember that the best teacher challenges his or her students. Constantly.

Your lucky number is 16 baby-talking co-workers.

Undeclared

Now is clearly not the time of year to be picking a major. Instead, you should be picking what to do over the holiday period.

AMATH wants to go with you to New York for New Year's, but I hear you might have some trouble leaving the country if you follow through on next Tuesday's plan.

Your lucky number is \$65/night.

Horrorscopes continued on page 7...

Horrorscopes

Eng

Rumour has it that MathSoc's Natural Log recently left for a vacation, leaving a note that reads "ERTW". Not that you'd know anything about that or anything. I'm told that as long the Log returns safely with pictures of its travels before too long, no one will particularly mind. You may want to take a trip of your own after this term's finals, by the way. It could work out nicely for you.

Your lucky number is two months' trip.

Sci

Spending more time in the lab to try and churn results out of your term project could be unproductive. I'm getting mixed signals from the stars on this one, but they seem to suggest transferring to Biology and opening a Flea Circus.

It may not go over well with your profs, but you'll make a fortune showing it to Artsies.

Your lucky number is 25 cent admission.

AHS

Mathies have started wondering exactly what is involved in Rec and Leisure Studies. Make something up before they discover they can take courses like "Introduction to Park Management" or "Theory of Play."

PMATH may try to suggest that yours is not a real program. Reply by telling them that your Dean can beat up their Dean.

Your lucky number is 5.

ES

With the coming of Winter, it's time to break out the plant lights and move your garden indoors. There's no reason one can't enjoy fresh crops all year, and the ESer's naturally green thumb only makes it easier. I am, of course, referring to vegetables. Not that you couldn't make more money growing something else.

Your lucky number is a bunch of dwarf carrots and some strangely expensive seeds.

Arts

Coming up to the end of term, term papers are probably due around now, making it the one time of term that you will actually have to do work. Don't worry! With the coming of finals, you'll have plenty of time to sip cocktails while your friends in other faculties are studying madly.

Your lucky number is 0 finals.

Dirty Mathie and ink_13

ElseWhen

25 Years Ago in mathNEWS

All of the issues (and more!) that I summarized here are actually available in the UW libraries. If you get bored one day, I suggest reading them, since most of them are pretty interesting. I get mine out of *mathNEWS* office, but it's probably easier to read them in the library.

I should get to the job I'm here to do, since I don't have a lot of time this week. And now, a summary of Volume 24, Numbers 9 and 10, originally published November 14th and 21st, respectively.

Eric Logan

Number 9

- Lee Dickey gave a lecture entitled "Inversions and the Dunce's Cap", because that is apparently what you get when you generalize the inversion to a sphere
- Math blew away all other faculties when it comes to participation in the latest Blood Donor clinic.
- Ray Butterwort(h) muses about abortion.
- David Till reminds us that Rock & Roll is not dead, with Teenage Head playing the Waterloo Motor Inn on October 30th.
- At the Math-Kin pub, Kin-ers outnumbered Mathies about 2 to 1. Marnie the social director sez, "Are mathies just apathetic or anti-social or what???" [*I think those in attendance were pretty lucky — ink13*]
- A new B.Sc. in Gastrophysics is announced (sample major courses: Subatomic Food Analysis, Food Spoilage, and SCH Desserts)

Number 10

- MathSoc will be holding a "Liquidation Pub" in the Faculty lounge with a DJ and Dancing and everything. Beer will be \$0.50, liquor will be \$1.
- Mike Gore announces great progress on the Small C Compiler. He's working on the project with assistant editor Ashok Patel, Andrew Forber, and Bernie Roehl.
- The Village I and II First Annual Semi Formal will be November 22, 1980. The event is being held at the Upper Level of Kitchener Market Square, tickets are \$20/couple, and all proceeds will be donated to the Terry Fox fund.

House of Nerds



Dan has come down with a case of writers block, and something else that's really irritating his throat. Unfortunately that means this issue you only get one comic, but stay tuned for next issue where we promise a surprising turn of events. It'll make up for this, and well if it doesn't, screw you, you try doing a comic.

Breast Calibur III

The Same Tale of Nipples and Boobs Eternally Resold

Story

Those of you who are familiar with the Soul Calibur series, and were waiting anxiously for a game that would revolutionize the way 3D fighting games work, were likely disappointed with Soul Calibur III. The story takes place not too long after the second Soul Calibur; Nightmare, the Azure Knight, was not only destroyed and resurrected again, but Siegfried, the man possessed by the evil sword, Soul Edge (thus becoming Nightmare), has returned to his human state. And so, the fierce battle for the sword continues. This time featuring three new characters... and all of the same old ones. That's right, after four games in the series (Soul Blade was the first one), where fierce warriors battle with big weapons of painfulness, no one dies — though occasionally some of them sit out of a game to sip tea or something. The new characters are as follows: Zasalamel, a strange knight in white cloths that wields a shiny scythe; Setsuka, a geisha with huge knockers that battles with her umbrella (which conceals a tiny blade) and a "lust for vengeance"; and Tira, the crazy, scantily clad assassin that plays around with a hula-hoop.

Gameplay

If you've played Soul Calibur II then you've already played (and paid for) Soul Calibur III. Sure, they added in some minor tweaks to the game, but nothing that makes it stand out drastically from the previous one. Where this game stands out from its predecessor is in the extra features. As opposed to having a large quest where you fight hundreds upon hundreds of repetitive battles to unlock stronger weapons for a character, you now have no quest, just random missions to play through in which you fight hundreds upon hundreds of repetitive battles to unlock the weakest weapons for your character. Not only do you have to unlock some of the features, but you have to pay for them to actually get access to them later, which just makes it tedious considering the cost of some of the items and how little money you get for completing the missions.

Each character has a "Tales of Swords" mode where they follow their own somewhat non-linear path. It sounded good until I played through a few of them. Pretty much all of the characters went to the same places and fought all the same people, though sometimes in a different order. Then there's the "Chronicles of the Sword" mode where you play a real-time strategy game as opposed to the fighting game that you paid for. It's slow, unrewarding and takes a long time to complete single battles. What was wrong with having just a fighting game?

The next dumb part of Soul Calibur III was the "create your own character" bit. You get a plethora of costume pieces so you can design the character in almost anyone's image, and with so much choice you'd think that they would put some effort into giving your unique character a plethora of moves. But no, you choose a job for your character and that defines what moves they can have. Each move set for each job is very limited. If Namco took out this feature entirely and added a couple more characters then I would have been happy. The characters you make yourself can't go into story modes, and usually aren't as good as the ones that come pre-made. To make it worse, there's a job class that fights with tambourines, which puts Tira's hula-hoop and Setsuka's umbrella to shame when it comes to stupid weapons.

Now, the AI. Learning curves should be logarithmic, the enemy learns enough to prevent you from being cheap, but then provides a challenge after that point. In this game, the enemy starts off as dumb as a brick, more often than not walking right into your attacks, and then for no reason at all the difficulty increases dramatically and the only way to beat a character is to pray that if you keep doing the same move near the edge of the ring that you can knock them out.

The best part, of course, I save for last. Some of the coolest features of this game can only be unlocked by taking a certain path in the "Tales of Swords" mode and not losing once. Ideally this would be an okay challenge — if not for the fatally aggravating AI problem the game has.

Graphics

What can I say other than beauty? This game is a beautiful game. Playing it makes me vomit internally, but the graphics are beautiful. The only place where the graphics fall short is in originality. Some of the character costumes look ridiculous. Raphael, the delightfully insane fencer, looks like he belongs in a Broadway musical in one of his costumes. There's one character that manages to look like an octopus, and another looks like they were tool from Home Hardware. Their costumes are fairly asinine, or, in the case of the females, incredibly revealing. I don't know about some of the girls in this game, but when I go fighting with swords and axes, I like to wear armour, not a kimono or spandex. The other downfall to the graphics of this game, after all the effort and work that went into making thousands of clothing pieces for the "create your own characters", Namco couldn't take the time to change the weapon models used for the characters. In Soul Calibur II each character got 11 weapons that looked different, in Soul Calibur III that number has been reduced and all of them were in the previous game except for the characters that are new. Where's your originality now Namco? That's right, up my ass.

Music

The new music is simply beautiful. Amazingly written and well orchestrated, I'm definitely buying the soundtrack when it comes out. Although again, as if Namco didn't try hard enough to tell us that they gave us the same game already, some of the same songs from SC2 were used in SC3.

Breasts

Yes, this game features a lot of breasts. I thought that Soul Calibur II or Bloody Roar: Primal Fury was bad for jiggling, but man, oh man. You should see these things. They don't even look real anymore. Not to sound too sexist, but I know what breasts jiggling look like, and it doesn't look like a continuously fluctuating solid. One slight movement doesn't cause them to bounce up and down with such ferocity. I'm surprised that Namco didn't decide to arm the new female characters with breasts instead of their current weapons.

Breast Calibur II

Continues on page 9...

Breast Calibur III

Replayability

Like most games that have numerous features to unlock, Soul Calibur III has a fair amount of replayability. For those of you who don't, break your controllers in frustration when fighting a perfect AI or playing 30 minutes or so just to get enough money to buy one moderately impressive picture, then you'll definitely forego studying for your finals to watch the breasts jiggle uncontrollably.

Overall

The game is good, but if you bought Soul Calibur II, then you've already paid for this game. Rent it or buy it? Well, if you rent it, I don't think the store will appreciate you using it as a Frisbee or coaster.

Miak

Sony's Latest Product: Computer Virus Kit

All in the name of anti-piracy

Are you a virus programmer? Interested in making a computer virus undetectable to today's virus scanners? Then Sony has an opportunity for you!

Sony has already shipped millions of music CDs cleverly marketed as being "copy protected" — what the consumers don't know is that these CDs will really install a rootkit program. Sony's President of Global Digital Business, Thomas Hessa, has done extensive research into rootkits, stating that, "Most people, I think, don't even know what a rootkit is, so why should they care about it?"

Just in case, Sony has taken some precautions against any users that may care about it:

- Don't tell the user it's being installed
- Use the rootkit to cloak the program from the user
- Disguise the program as a critical 'Plug and Play' system program
- Don't provide a way of uninstalling it

If a user somehow sees through those protection techniques and tries to do a "brute force" uninstall, their computer will be crippled.

Thanks to the internet and "phone home" technology, Sony also has access to the IP addresses of all computers infected with their rootkit, and receives notifications when those computers are turned on. All you have to do to utilize Sony's preinstalled cloaking technology is prefix your program with \$sys\$, and it will be undetectable to the Windows operating system and virus scanners on these systems.

You won't be the first to take advantage of this fabulous offer though; some players of Blizzard's popular game 'World of Warcraft' are already using Sony's virus to bypass the game's anti-cheating technology.

For the enterprising among you, it shouldn't be hard to change the "phone home" address installed with the rootkit to an address of your liking. Remember: since Sony is a trusted name, there are millions of unsuspecting users! Act now and have your virus prepared for the many more expected users who will receive Sony's "copy protected" CDs for Christmas!

Chris 'Krease' Harasemchuk

Blizzard Adds New User-Created Class to WoW

Blizzard Entertainment announced today the planned addition of a new class to their popular MMORPG World of Warcraft. Due to unbelievable user request on the game forums, Blizzard executives are about to implement the "Nerf Rogue".

"We're really excited about this new class", says Mike Morhaime, president of Blizzard Entertainment. "The player base has been complaining for a long time now that the Rogue class is too powerful, and have offered up their suggestion as to the solution. Due to the volumous cries of "NERF ROGUES!", we knew that that was in fact the solution — a new class designed specifically to deal with rogues."

According to current information, the Nerf Rogue will be very similar to the Rogue in terms of abilities; however, it will wield Nerf guns and foam swords rather than the more traditional daggers and guns of its non-nerfed brethren. Some of the new abilities of the class are as follows:

- **RogueStealth:** Makes the Nerf Rogue invisible to Rogues. Only Rogues.
- **RogueVision:** Makes all stealthed Rogues visible to the Nerf Rogue.
- **StunKey:** The solution to the common "StunLock" Rogue build, makes the Nerf Rogue immune to stun.
- **Improved Spring:** Makes the Nerf Rogue run faster for X seconds. Note: Faster than regular Rogues.
- **Nerf Poison:** Coating his Nerf darts with the most virulent poisons, a Nerf Rogue can instantly kill any stealthed Rogues.

Subscribers to World of Warcraft are divided about the value of the new class. Warriors, Hunters, Warlocks, Mages, Priests, Shamans, Paladins and Druids are excited about the new class, saying it will add balance to the game. Rogues have responded with a wave of backlash, putting fan-boyism to shame, about how much the new class sucks, everyone else should learn to play their class, requests to make other Nerf classes, etc..

Hasbro Inc., the company which produces and markets the Nerf line of toys, is excited about the contract with Blizzard, saying it is a mutually beneficial way to get users of Nerf toys interested in World of Warcraft, and vice versa. The Nerf Rogue class is scheduled to be available in the World of Warcraft v1.10 content patch, due out by February.

SheepNine

"When a rocket starts flying off in random directions you want to make sure it blows itself up in a nice contained way."

Ingram, CS 134

[Totally out of context] "CS has the power to cause salvation."

Fong, PSYCH 101

"We'll ignore this method because it's used in practice."

Ilyas, CS 448

"If you paid me enough money I'd prove that for you."

Willard, PM 334

Living in Sin

Week 5: Gluttony

I don't want to tread on your eating habits... I don't know you or your metabolism. But gluttony isn't only about the overindulgence of food, but the wasting of it as well (children are starving in parts of the world!). On the other other hand, since food is an expensive necessity, it might be more important for you to cut back on the money spent — and in a student paper I feel I have to print money-saving tips.

Whether your goal is saving money on the grocery bill or decreasing the amount of food you waste, I have some personal (not necessarily proven for all) tips for reducing wasted money/food without changing your eating habits at all.

If saving money is your priority:

- **Cook (not just reheat) for yourself.** I almost didn't include this, since I find it so obvious. Excluding insane sales, it's cheaper to cook for yourself, and cooking and cleaning up with your roommate/significant other can be good time spent together.
- **Go in for groceries with your roommate(s).** This is not for every 2-tuple of roommates, but if you both eat the same breakfast cereal in near-equal quantities, you can split a jumbo box (usually far cheaper by weight anyway), or if neither of you can finish 4L of milk before it spoils, you can split the same bag. If you're worried about splitting food evenly, then split the package immediately after purchase into either Tupperware (worth the investment and available at Dollarama) or old containers for the same product, washed out.
- **Buy in larger quantities.** With the exception of amazing sale prices, it is *always* cheaper to buy in larger quantities. Provided you have the means to get the huge containers home, I highly suggest it. However, you should check expiry dates — if you overdo quantities, you may find yourself tossing out so much food it is no longer cost-efficient.
- **Shop at the no-frills stores.** Food Basics, Price Choppers, and The Real Canadian Wholesale Club do not require memberships and have, more often than not, the same brand-names and even same no-name-brands as the brand-name stores at cheaper prices. The catches include: increased distance from campus, no free grocery bags, and lack of deli, in-store bakery, and butcher's counter. However, I find the money saved actually pays for the gas to drive the extra distance, and I can use bags from retail stores (or the occasions when I go to Sobey's at 11pm or for the Deli counter) or the boxes provided.
- **Check your flyers.** If you don't get flyers at home, you may be able to add your address to the store's mailing list, or check them online. If there is one item you really need on sale you can strategically choose which store to shop at that trip.
- **Eat free food.** There's lots on campus: you can come out to MathSoc council meetings, write for *mathNEWS*, or circle the C&D near closing time.

If avoiding waste is your priority:

- **Go in for groceries with a roommate, because then you can buy bigger quantities without waste.** Pretty self-explanatory.

- **Clean out the fridge and take inventory before leaving for the store.** This will remind you to eat anything still good, get you to toss anything that has spoiled, and help you make a good list of what you need so you don't end up with 8L of milk and no garlic.
- **Check expiry dates in the store.** Later dates should be found in the back of the shelf. If you can't finish by the date, buy smaller. It's hard to spend almost as much for 2L of milk as for 4L, but if you like avoiding pouring 1-2L of spoiled milk down the sink, then it's worth it.
- **Store food strategically.** I tend to get really excited about food in the store and then forget about it until it starts to smell in the fridge. So try these techniques:
 - Re-arrange your fridge shelves so that drink containers fit on any shelf except the top. Then, put expensive and very perishable foods (cut vegetables, expensive cheese, leftovers you want to eat if you could only remember they were there) on the top shelf. You probably won't forget the drinks, but you might forget the rest.
 - Never keep anything in the crisper drawers if you suffer from "out of sight, going rotten." Trust me. *shiver*
 - If you want to remember to eat something non-refrigerated, leave it out on the counter.
 - Buy a whiteboard for the fridge (\$1.15 at Dollarama) and keep a list of your perishables, current leftovers, and meal ideas you've hidden in the freezer.
- **Store bread in the fridge/freezer.** I could never eat a loaf of bread in a week, and Lino doesn't eat Whole Wheat, and I only toast it, so I can't taste the difference. Bread keeps twice as long in the fridge, and indefinitely in the freezer.
- **Freeze food in easy quantities.** Buy freezer bags (Dollarama!) and freeze ground beef by the pound or half-pound, freeze chicken thighs/breasts separately, etc.

Bon Appetit!

Half-pint
who gets a free dinner tonight
(write for *mathNEWS* and you can too!)

Top Ten Bad CS Pickups

10. compareTo my Object, there's no equal
9. I'd like to ++ your C
8. If you're worried about being threadsafe, we can put my primitive in a wrapper
7. You've got curls in all the right braces
6. I hope you're a try catch block, 'cause you make my stack overflow
5. I want to jump and link my pointer to your address — where we can fork in private
4. Baby, I hope you're polymorphic, because it would be a shame if no other objects share your attributes
3. Want to see my runtime extension?
2. You must be a bitshift, 'cause you just doubled the size of my int
1. I'd extend my Object into her constructor... with no arguments

Chris 'Krease' Harasemchuk

mathNEWS Quiz

What Kind of Mathie Are You?

There comes a time in your university career when you ask yourself: “Where in the faculty do I belong?” If you figure this out early enough, you could save yourself valuable time and money by not having to change programs in your third or fourth year. So to figure out which program you belong in, take this simple quiz. Then total up your score and find out what kind of mathie you are!

- Why do you take math courses in the first place?
 - To gain valuable skills in today’s technology-driven environment.
 - I want to learn how to handle money.
 - Because I have to. Math has numbers, and numbers are hard.
- What about electives? What kind of electives do you take?
 - Geez, every course I take is like an elective.
 - English is pretty easy. Breadth and depth, baby!
 - What are electives?
- Your favourite professor is ...
 - Larry Smith
 - Troy Vasiga
 - Coach Johnson
- It’s springtime, and love is in the air. When it comes to attractive girls (if applicable to you), your thoughts always come down to: “Thank God for...”
 - Bioinformatics.
 - Nearly every single student in every single one of my classes.
 - Laurier.
- When you’re not in class, what can you be usually be found doing?
 - Well, if I’m on co-op, I’m probably working on my DE course for my degree requirements.

- I’ll be at practice for one of my 4 varsity sports teams.
 - Coding. Or playing World of Warcraft.
- Finally, where do you expect to be working after graduation?
 - At a financial firm or a tax preparation company.
 - At a software company doing Tech Support or development.
 - At McDonalds.

Okay, you’re finally done! Now look up your answers on this list and total your score, then divide by n, where n is the number of questions you didn’t skip:

- 1: a) 3 b) 2 c) 1. 2: a) 1 b) 3 c) 2. 3: a) 2 b) 3 c) 1. 4: a) 3 b) 1 c) 2. 5: a) 2 b) 1 c) 3. 6: a) 2 b) 3 c) 1.

Now if your score is ...

Between 7/3 and 3: You belong in CS or a CS equivalent. Congratulations! Prepare to spend hours upon hours of the next four years of your life doing assignments under the still glow of a flickering fluorescent screen.

Between 5/3 and 7/3-epsilon: You belong in a business program of some sort, like Chartered Accountancy or Double Degree. Be thankful, someday the world will be looking to you to manage their money. What people don’t know can’t hurt them, but it *can* be used to your advantage.

Between 1 and 5/3-epsilon (or if you can’t figure out your score): You belong in... okay, I’m not gonna lie, math is probably not for you. Perhaps you should consider some sort of social science. Or maybe Rec and Leisure. Your brain will thank you.

SquirrelToken

Waterloo is Number #1 Again

And here’s why:

Every magazine agrees that UW has the best defenses in Canada for yet another year. Many universities have on campus shelters, but no one else is as prepared for a nuclear attack as we are. Even the Canadian Army headquarters are not as well-protected as our students. Here I will summarize the points made in Macleans magazine on the clear military supremacy of this school.

First, and most obvious, we have the Bombshelter a.k.a. “The Bomber”. Even on a Friday night, we are concerned with security. Students line up to be packed into a small room, lured there with the promise of music, beer, and a chance to meet members of the opposite sex. Little do they know, this is designed to keep the best and brightest students safe in case of attack. The building’s dual purpose of warding off attack and shooting down enemies with the latest SLC bombs gives it an advantage over every Canadian fortress every built.

The second protective measure taken for our students is the RCH Bunker 101. This state of the art shield has 10 layers of various alloys which not only make it blindingly ugly (so unplottable), but also store solar energy to power the safe room within. The plastic-pine hybrid furniture provides both seating and bedding for over 400 students, who can live there for up to 2 weeks before running out of supplies. Reserved mainly for engineering students, this building features male-oriented activi-

ties to pass the time, such as big screen video games and “no, mine’s bigger” contests.

Last but not least, the tank/fortress MC is built to withstand any attack, by nuclear bombs and decorators with any taste. Landscaped for ugly-maximization, it even has booby traps on the lawn. With Tie Guard out front and Comfy Trolls within, this is the scariest building ever made.

So even if you have previously mocked the (lack of) strength of Canada’s military, you must admit that the power of this facility will make everyone in the world tremble at the power of our giant minds. And bombs.

[You’ve only forgotten one: the Dana Porter Library. The DP library has a hidden airplane hanger and is really a giant radar/radar blocking source. Heh, yeah, our campus rocks defensively — BeatleEd]

Jenn the Dirty Mathie

“Last day I said don’t take my word on anything, today I’m saying ‘take my word on this result’ life’s to short to prove it.”

Willard, PM 334

“I’m skipping class on Friday.”

DiCesare, STAT 230

“Is this secure? Not if the enemy can factor.”

Rubinstein, MATH 135

profQUOTES

“Odd cycle: a cycle of length odd.”

Schellenberg, MATH 239

“That proof isn’t going to be all that convincing if you’re one of those flat earth people.”

Schellenberg, MATH 239

“Your homework for the weekend is to rob a liquor store in the most greedy way possible.”

May, CS 234

[student] “Does it matter if the interval is open or closed?”

[Prof] “Damn, I was hoping you wouldn’t notice.”

Wainwright, AM 231

[after asking the class to define inner products] “You use angle brackets? Woah, that’s kinky.”

Wainwright, AM 231

“This is such a beautiful formula, so let’s make it look beautiful.”

Wainwright, AM 231

“We’ve got time for a quickie.”

O’Donovan, PHYS 121

“This calculation involves both multiplication *and* addition, so I’m going to look up the answers.”

O’Donovan, PHYS 121

“This is a derivative in a nutshell.”

Stastna, MATH 137

“Landing on the moon is easy, physics is hard!”

Wainwright, AM 231

“Let’s pretend this question requires a binary search tree, because then the question would be not-retarded. I didn’t check this exam for retardedness.”

May, CS 234

“Why do scientists have bigger balls than mathematicians? Because they sell more tickets.” [referring to SciBall attendance vs. Charity Ball]

O’Donovan, PHYS 121

“And nothing can be more zero than that.”

Leans, MATH 135

[referring to graphing] “We don’t have much artistic talent, and that’s why we’re on this side of campus.”

Stastna, MATH 137

“No, I can go backwards. Watch me.” [starts moonwalking]

Stastna, MATH 137

[Student] “Wouldn’t that negative answer for time be valid in some other dimension?”

[Prof] “Not in the dimension that’ll appear on the next midterm!”

Stastna, MATH 137

[Student] “So what did Euler *not* do?”

[Prof] “I’m sure he didn’t skateboard.”

Stastna, MATH 137

“By looking at it, it is strongly suggestive but unfortunately I’m about to prove it.”

Teske, MATH 135

“My colleagues in computer science would say it’s $n^{(1+\epsilon)} \log(n)$ where epsilon is 4.13725814..., which is not my telephone number.”

Jackson, MATH 245

“It’s just syntactic gobbedly-gook.”

Black, CS 330

“That’s what this recursion is doing. [pause] What is it doing?”

Ragde, CS 135

“Most games have a way of making sure it doesn’t go on forever. Except baseball.”

Ragde, CS 135

“It is very important. But on the other hand, we don’t have time.”

Ragde, CS 135

“Don’t blame me if I can’t find any women.”

Smith, ECON 101

“If I was a smart economist then I’d be a billionaire and not be in this stupid room. And if any of you write this down, you’re dead.”

Smith, ECON 101

“You get this multiplied by the third complicated mess or you multiply the first and second for a complicated mess.”

Rubinstein, MATH 135

“Let’s solve some problems with problem solving skills.”

Rubinstein, MATH 135

“... but for that you need to know how to multiply and add.”

Rubinstein, MATH 135

“It’s just like how a relationship is started. Getting the different parts to match.”

Rubinstein, MATH 135

“So now whenever I go up into the attic, there’s Hitler looking at me.”

Rubinstein, MATH 135

“Let’s say you’re going to send me a secret message, like ‘Let’s kill Hitler this afternoon.’”

Rubinstein, MATH 135

“Someone bad might get your credit card, like [with] me, where someone bought flowers for some person in Los Angeles, and I swear, it wasn’t me.”

Rubinstein, MATH 135

“For two fractions that add to 1, say 1/4 and... well, two fractions that add to 1.”

Andre, PM 331

“At St. Jerome’s, they can’t afford the *real* chalk that’s 0 units wide.”

McLeish, STAT 230

You Know You're in UWaterloo Math When ...

A Frosh Perspective on the University of Waterloo.

For a frosh, university is a new and unique experience. In no particular order, here are some interesting observations my friends and I have made; things you probably won't see or hear anywhere else except in UW's math program. Credit has been given where it is due. You know you are in the University of Waterloo Math program when:

- The V1 cafeteria labels the water dispenser as "H₂O" — and no one complains.
- There is math graffiti in the bathrooms of the MC.
- You discuss the advantages of KDE vs. GNOME with your friends during a CS134 lecture. (by Dimitry D.)
- You double-click the crosswalk button. (by Scott V. H.)
- You feel comfortable talking about your favourite keyboard key. (by Dan B.)
- In advanced math, everyone applauds the start of the derivatives unit.
- You accidentally write, "RAM Sleep" instead of "REM Sleep" in PSYCH101.
- We study bad rocket science jokes in PHYS121. (by Dimitry D.)
- You talk about emacs, and no one complains it is overrated (by Dimitry D.).
- Your friends debate the grammar of leet speak over dinner.
- People brag about their collection of math t-shirts.
- CS jokes are common-place around the bonfire.
- You call your girlfriend "differentiable" when you mean to say, "I love you!"

If you have other interesting observations that show what a great place UW is, e-mail them to me at amarkov@student.cs.uwaterloo.ca. Note: I reserve the right to refuse submissions.

Anton Markov

More profQUOTES...

[points] "You've got to go that way, past the creek, over by Laurier, which is about as close to negative infinity as you can get."

McLeish, STAT 230

"I will write this down and wait long enough for you to copy it into your notes before I say that it's wrong."

McLeish, STAT 230

[Tries a chalkbrush that doesn't work] "Somebody's recycled underwear is attached to a piece of wood up here."

McLeish, STAT 230

"I'm not sure what you're saying, but that could be a research paper, I think."

DiCesare, STAT 230

"She's saying j comes after i, so you can't know j before i; but in probability, you can."

DiCesare, STAT 230

"Every now and then I have to stand up here and spout out wisdom ... knowledge... facts... stuff."

Willard, PM 334

mathNEWSquiz #5

Bring on the Squiz

In another exciting Squiz Battle, David Jones submitted solutions to the Squiz this week. Pulling out to the lead was David Jones, who wins a \$5 gift certificate to the C&D by beating everybody else. Nobody. Congratulations David. People, you can submit partial answers, and you might just win. Free food.

Now, on to this week's questions.

Pro Wrestling

- Who is the owner of the WWE?
- What was the former name of the WWE?
- What "slogan" did they use while they were changing the name?
- What competitor, owned by Ted Turner, did the WWE buy out?
- Who did the current owner acquire the company from?

Canadian Politics

- Which party has the most seats in the federal government?
- Who is second? Third? Fourth?
- How many seats does each party have?
- Who is the current Prime Minister?
- Who is the current Governor General?

Sevens

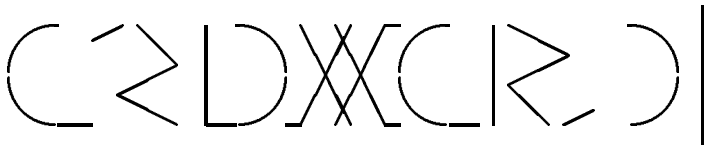
- List the seven days of the week
- List the seven deadly sins
- List the names of the seven dwarves in Grimm's fairy tales
- List the seven planets closest to the sun
- List the first seven digits of π
- List the seven signs of the Zodiac

As always, submit to the BLACK BOX or via e-mail the mathnews@pipmcsandhoes.uwaterloo.ca [Or, you know, if you WANT us to get your email, you can send it to mathnews@student.math.uwaterloo.ca — BeatleEd].

π

Solution to last issue's grid

S	A	U	L	█	W	R	A	T	H	█	I	T	E	M
A	R	R	O	Y	O	█	L	█	A	C	C	U	S	E
C	R	A	T	E	R	█	R	█	S	I	E	S	T	A
K	E	N	█	A	L	B	E	R	T	A	█	S	E	N
█	S	I	S	█	D	R	A	K	E	█	A	L	E	█
S	T	A	I	R	█	O	D	D	█	E	N	E	M	A
A	█	█	B	U	N	N	Y	█	M	A	C	█	█	U
F	I	R	E	F	O	X	█	B	A	G	H	D	A	D
E	█	█	R	U	T	█	H	E	L	L	O	█	█	I
S	E	T	I	S	█	H	A	G	█	E	V	I	C	T
█	R	I	A	█	C	A	M	E	L	█	Y	G	A	█
E	M	S	█	T	O	L	S	T	O	Y	█	U	R	D
V	I	S	U	A	L	█	T	█	D	O	R	A	D	O
E	N	U	R	E	D	█	E	█	G	U	I	N	A	N
S	E	E	N	█	S	P	R	E	E	█	P	A	N	E



gridCOMMENTS

I was very impressed with this week's submissions. I figure with the number of submissions, I should at least increase the difficulty a bit! Good luck to all on this week's gridword, where vague Army of Darkness abound. Congratulations to Sean Driedger who will be getting a pony with fricken *laser beams* for his birthday! Please come by MathSoc to pick up your gift certificate. Good work everybody with correct submissions; Dani Haider, Jess and Ed, Marg and Cristin, John Pebesdy, Alison Purnell and Michael Perkins. The gridQUESTION for this week is: if you could make anything in the world smaller, what would it be?

Gridmaster Fox

Across

1. Cultivate
7. Bosom
11. Small growth or lump
12. Chinese martial art
14. By virtue of office (abbr.)
15. Inventor of famous razor
17. Cringe, as in fear
19. Somewhere to be taken
22. Lunar crater or Minnesota township
23. Lower spine
27. Assault, as with zerglings
28. Television shows
29. Orientation week group
31. Dork
32. Crust and mantle discontinuity layer
33. Farming implement, from a sword
35. Ryan and Kelly
37. Couch operas
38. Loathed Internet greeting (abbr.)
39. Shipwrecked Swiss family
41. Infinitesimal
42. Admire, as in early engines
45. Vase
47. Frighteningly cheerful
49. Line segments from center to edge
50. Boards of Canada song
53. Hospital section (abbr.)
54. Quik manufacturer
56. Shrewd or crafty
58. Draft
59. Historic American family

Down

1. Live
2. Developer of Madden 2006 (abbr.)
3. Speedy noise
4. And so on
5. A Canadian cheese

6. Ferocious feline
7. Thick print (abbr.)
8. Commotion
9. Witnessed
10. Common plain state weather phenomenon
13. Magnificent
16. Wedding center
18. Exclamation of happiness
20. Ash's famous weapon
21. Chasm
24. Undergarments (slang)
25. Sounds or signals
26. RNA particle found in living cells
30. Celibate
32. "Life was _____ to be lived, and curiosity must be kept alive." — Eleanor Roosevelt
34. Perches
35. Aged, in a good way
36. Organ
39. Lassoing
40. Boobies
43. Sesame Street character
44. The root of all evil
46. Very uncommon
48. Golden center
51. Famous Bruce
52. Dominate (slang)
55. Made of or resembling (suffix)
57. Indefinitely (abbr.)

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