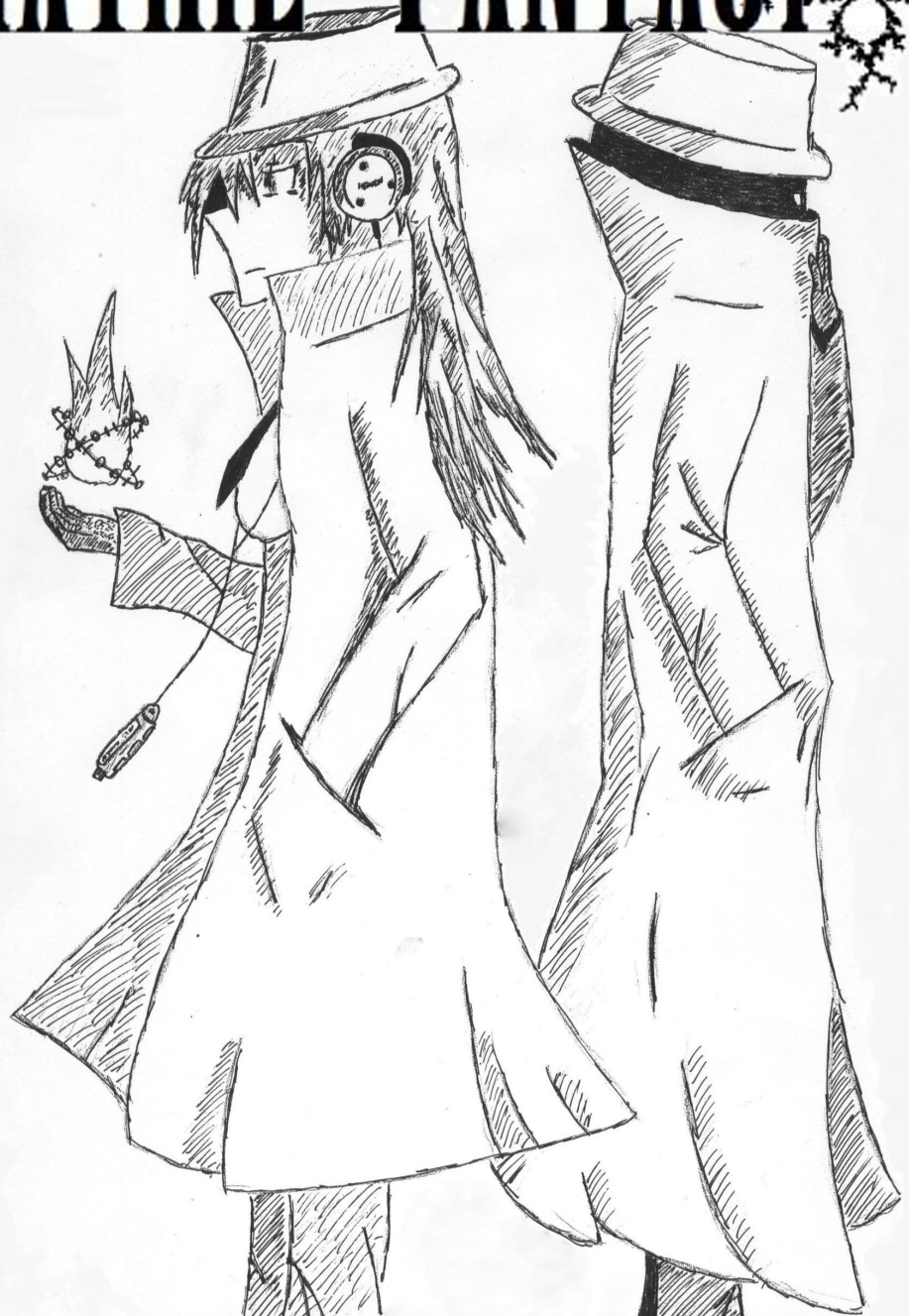


NEWS

mouth

MATHIE FANTASY



The Black Magic of Software



9 770705 041004

lookAHEAD

mathNEWS

February 18	Stop studying... read issue 3
February 28	Free pizza for writers
March 4	Issue 4... so many 4s

MathSoc

Tuesdays	Games night
Thursdays	Movies/Karaoke night

Math Faculty

Feb 21	Deadline for 50% tuition refund
--------	---------------------------------

Miscellaneous

Feb 21	Family day
Feb 21-25	reading week(as if you didn't know that)

Prez Sez

I'm President, Bitch.

Hello Fellow Mathies, So we are half way through February and lots has happened. Two weeks ago on Friday the 4th you may of noticed the comfy closed in the morning. Well that is because it had fallen victim to a prank! There was Talcum powder put all over every couch. You may of also noticed a lot of engineers running around and acting crazy on the same day because they were about to get their Iron Rings. You may or may not want to put these two thing together. I'm not saying you should, I'm just say one could. While on the discussion of Comfy, the wireless signal has been boosted in both the Comfy and the C&D so happy surfing! I've had a meeting with former VPF Rami to talk about digital signage. There is still a lot of work to do with that. The Societies agreement, the hot topic this term, is still not over!! I know, will this madness ever end? I'm hoping it will be done before my next update but anything is possible. Finally, course evaluations for Fall 2010 are up on the website so go check it out! I've been posting more frequent blog post on the MathSoc website (<http://mathsoc.uwaterloo.ca/Blog>) so if you want to know what I'm up too, and can't wait until the next Prez Sez, check it out and leave your comments if you have any. This is your MathSoc President signing off from another fortnight's update. Stay Classy MC.

Andre Gomes Magalhaes
prez@mathsoc.uwaterloo.ca

ISSN 0705—0410

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*, MC3046, University of Waterloo, 200 University Ave. W., Waterloo, Ontario, Canada, N2L 3G1, or to useridmathnews@student.math.uwaterloo.ca on the Internet.

This work is licensed under the Creative Commons Attribution-Noncommercial-No Derivative Works 2.5 Canada License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc-nd/2.5/ca/> or send a letter to Creative Commons, 559 Nathan Abbott Way, Stanford, California 94305, USA. Terms may be renegotiated by contacting the editor(s).

The editor(s): Harrison Gross, Will Hughes: Mubarak and Suleiman

mastHEAD

Midterms ate our writers!

This week we went to the lab with only editors and former editors. Valentine's Day plus midterms killed all of our writers for the night. As such this issue is shorter than normal! Who'da thunk it?

With what few writers we had from emails and other things, we managed to scrounge together a *mastHEAD*: What are you doing with your reading week?

(define this (not cool)) ("InsideR"), InsideR ("(define this (not cool))"), ieatyourSANDVICH ("Curling it up into a closed timelike curve and enjoying my infinite days off"), Zethar ("There's a reading week?"), MustardMap ("Use a camera to fight away evil spirits... I'm serious about this"), creeper ("Reading... your diary"), Image ("Trading it in for an Operetta fortnight"), -perki (" -reading"), FuzzyED ("Eating mammillian babies")

GroovyED
 Work. Sleep. Cry.

VPAS Sez

Happy Friday!!! I'm pretty excited because it's the happiest Friday of all! The Friday before READING WEEK... which means hopefully everyone is done with the worst of their midterms. If you're not... enjoy reading over the break!! And good luck with them! Either way I hope everyone has a safe, relaxing and super fun week, don't miss school too much!

Monday was super fantastic this week - it was Valentine's Day! The office was decorated super nicely by the fantastic office directors, and tons of roses and chocolate were given out. Hopefully you got a chance to drop by!

There's some stuff to look forward to after reading week! As always we will be having Games Night on Tuesday @7pm in the Comfy Lounge. It's also Movie and Karaoke Night on Thursday in the Comfy. We have a NEW machine and tons of new songs, so be sure to check that out!

There is also a Ski and Snowboard Trip to Blue Mountain going down on March 6th! Tickets are \$50 for math students (\$55 for non-math) and includes the bus there and back, as well as lift tickets for the day. Tickets will be on sale on the third floor all week before then!!

Another thing to look forward to is PI DAY!!!! Which is ONLY 24 days away!! SO SOON! There will be free "Pi" on the third floor - YUM! There will also be a new Pi Day T-shirt to add to your collection! GET EXCITED

That's all I've got for this week! Hope you have a WICKED Reading Week!! ENJOY!!!

Anna Merkoulovitch
vpas@mathsoc.uwaterloo.ca

Warning to Softies

If you plan to attend IRS when you graduate (not the ceremony, but the afterparty), you'll notice your ticket warns that all non-black clothing will be physically removed. They're not joking.

You will also notice that pink ties are not black.

tieless

WatSFic Sez

Board games!

Hello people. WatSFic will be meeting in the Comfy Lounge (MC 3001) on Saturday, February 19th (tomorrow) to play board games! If you aren't gone reading week, drop by and play some games!

Harrison Gross
WatSFic Prez W11

VPA Sez

Co-op first interview cycle match results will be released this Friday (Feb 18th) Good luck everyone! If you are less fortunate in the first round, don't get frustrated: we are here to help you! We are going to organize another one-on-one resume workshop (March 3rd, 5-8pm). This time, we will have more volunteers, so hopefully you don't. Hello Mathies, Co-op first interview cycle match results will be released this Friday (Feb 18th) Good luck everyone! If you are less fortunate in the first round, don't wait in line for long. Also, we will be hosting a Speed Networking event in the evening of March 9th. Yes, it will be as fun as Speed Dating! Company representatives will come to campus and talk to you 1-1. You will get the chance to explore different career opportunities out there and to impress the employers. My PD board will give you some tips on how to EFFECTIVELY build up your network and leave a deep impression on the employers on March 8th (right before the Speed Networking event so you can practise what you have just learned and see if it actually works) Oh yeah, don't miss cards: we are in the middle of designing creative yet professional business cards tailored to different programs! I know this is a lot of information, email me if you have any questions or request details about our many upcoming events. OR you can always visit our facebook page, and mathsoc website, I will keep you guys updated there!

CECS Updates :

1. There are new guidelines for unpaid off-campus work terms, effective W2011 interviews for S2011 work term. In short, students must receive some substantive remuneration for their co-op work term, though exceptions for unusual circumstances may apply.
2. If you want to work for Government of Canada for a couple of terms and are interested in Life Science or Earth Science or other related fields, check out their Progress Internships Initiative (PII)
3. One of the committees I sit on is the co-op student council, where we, student representatives, come up with the agenda and discuss co-op related stuff that concerns you guys. If there is anything that worries you, be it interviewers' lack of respect, or not-so-helpful ranking consultation, come and talk to me!

Last but not least, academics! — order to help everyone better understand course materials (as opposed to only memorizing solutions for exams) we are planning to launch a Problem Bank! We are still at the initial stage, brainstorming how to make it benefit you guys the most. So, all ideas are welcome!

That's it for now! I know you are all excited about the upcoming reading week! Have a lott of fun!

Hellen Hou
vpa@mathsoc.uwaterloo.ca



MEF Director Sez

Help me spend \$25,000!

The Mathematics Endowment Fund is a fund to which math students donate to help fund various undergraduate projects. Every term, we fund a number of projects, proposed by students, staff and faculty, that help to improve undergraduate student education in the Faculty of Math. We have funded course notes, MFCF hardware, club equipment, conferences, and much more!

This term, we have \$25,000 of funding to give out to a number of worthy projects. If you think you have a project that is worth funding, fill out one of our proposal forms from our website, <http://www.mef.uwaterloo.ca>. Proposals are due to the MEF office (MC 3028) by Friday, March 11th.

We're also looking for people to sit on MEF Funding Council. It entails one meeting in late March, and involves helping us to decide how the \$25,000 will be divided. There are two reps per program and three per year. Nomination forms are available on the website. Nominations for year reps are due **today** to MC 3028, and for program reps are due March 9th to the same.

If you have any questions on anything to do with MEF, please send me an email, or come to my office in MC 3028. It gets so lonely in there sometimes

Joe Collins
MEF Director W11

mefcom@student.math.uwaterloo.ca

ENCRYPTION

The following is an encrypted message, results next week:
 "AQ\$N}>0\$J]IP+2re*JZAw?_2A7>btbuO=}EsADgJ]CFgnc>PFg-
 {CI vitjXfH,ge5Qtpc/0])P@+=s\d3q{CI1{yo}Ns0zO@X
 yID5tG=6[\$|OX5OWJ6;s0!TP&=*+7g4k@sn/"U.oU\
 28#!n(MhvF<of40("HR\3rn|6d]|(PM2Nz*Yv{Hz+\$\$N%@\$i5A-
 t b g L a ; K (' G g 9 9 1 (S > M 7 W v K Y R < Z f 4 x ` k V -
 P + + 6 y { 0 E o \$ % p > A " 6 q ' c l ? L U 7 W = * Y 9 5 ^ d Q + ? _ z j 1 . 3
 _ z 6 u A ") > c i l ' p u # . L w g i] p 3 { Y _ * 4 > E I = ; O u H B @ W + M l M + H ! B ^
 O R 3 j h 2 : n W F s N ! w W [X X 7 k @ 3 D
 J . 0 t y U y ` U ` # t Q x u H l \ B U J C 4 z 5 D * z u v N E
 F m S f 1 \ 1 q v } # 1 j z > p 0 V " t 7 j] % = 2 h ! Q Z M | F > Q m l p X : t y < @ L > 1 4 l 2 4
 Z K Q @ < p F j w X (6 ' o G & B l z] F O Z U b B d "] x C | e h 0 ? + e ^ " 4 m l ' N ` (; H 0 /
 S 7 W ? N c L A @ _ c G _ e A S } 2 Z l @ | } n g (d E ' ^ z 8 (H u M Z \$ r j 4 ! L j] 7 7 \$ g E [O
 A (\ > { (; b E) M E V x E 9 U j Y i d H z R T s 9 0 &
 x o @ F N v n < { r t : P ! d f q Y + w Y s f q R T F T " { 3 F / 7 d ^ G n # /
 \$ > 2 x ? h f H B E S I ^ w < ^ I + 4 t d \$ h t O _ \ . { .
 5 B e & & U a % w t * t A t 0 \ 7 # R * " k _ < q A 7 S Z
 7 Q > r B + 1] j ` m R { | n V] B Z : D Y t V l * ! ; e # 1 M W L | A h -
 Y * T ? Q # 3 4 v) 0 } y M M E o s ; N H n H)) + Z Q , H T
 \$ d w 2 K . 8 # o % f i ' 6 k * 4 H m 3 5 e @ n } = \ @ d u M Q ; + / \$ q : t m 3 A , > a w T c t 6
 < e q M d] G T ` , 6 i \ } = h : 3 L A { f , e @ E } r ; N & s S [m b S . % : s ^ N G 9 { > y } z 1 a
 c < 4 H \$! % : v }) Y e - r 4 ` 4 G / T N c ! p { 1 R 6 g a S & q 2 d o ^ Z = Z p -
 [4 2 > 6 d Q Q f c 9 G i + 3 | / 0 w 9 n m _ @ i = < ^ * j . t f e @ C I F { # \$ X ` p /
 ^ 5 ` a D z & i) } s g x } g + j K] T < G e ' w H @ p 6 { } 9 D & z g } Z % S { x t D } 6 e , p ' . B f I D "

XML: Contrary to popular belief, it doesn't always kill babies

XML. The “eXtensible Markup Language”. What happened to you, man? You used to be so cool. People loved you. They took you to meet their parents. They went to the movies with you. They walked hand-in-hand with you down a moonlit beach! Those were heady days. Good days. Now, you're nothing. XML is the bogeyman in the closet and the monster under your bed. We've woken up from the drunken night of partying that was XML's prime to a morning hangover and a heap of bloated syntax that scars the human soul.

Look. XML isn't all that bad. XML is a medium. Sure, people have done terrible things with it (SOAP), but I choose to believe that XML was an unwilling accomplice in those deeds, not a malevolent co-conspirator. And yes, it's certainly true that there are a lot of good alternatives for XML. First, if you're making a config file, is it really called for? Have you considered a nice, human readable flat file with key/value pairs? What about YAML? These formats probably won't drive your readers insane. Please do not expect humans to edit XML config files by hand on a regular basis. Computers adore XML. It's nice and easy to parse, so structured and precise. Computers love that shit. People don't. So keep the human-editing to a minimum. Second, are you trying to define a data interchange format? JSON is a great way to go. It's extremely simple, and maps almost directly to real data structures in most programming languages. For something like a web service API, only use XML once you've shown JSON to be unsuitable through trial by fire.

Ok, so XML isn't always the right tool for the job. You know

what they say: “When your only tool is XML, every problem looks like it's a schema declaration and a few XSLT transformations away from a nail”. People have used it in the wrong way a lot, and that makes XML sad. So when should you use XML? I'd like to make two proposals. First, XML is a good tool to use if you're creating an actual document. I'm not saying that people should necessarily edit their documents in XML, mind you (Something like Markdown might be a better fit there), but that XML is a reasonable choice for storing documents. Microsoft might not be totally crazy for basing their docx file format on XML. I'd expect them to be uniquely qualified by years of hindsight to design a document format, honestly.

The second situation where XML is ok is when you've got a very specific form for your data: a heterogenous tree. XML is a natural choice for representing trees. The example of this that I personally experienced is a parse tree. In the course of writing a compiler for a Java-based language, I championed XML as a parse tree format, and it paid off nicely. There just isn't a really nice way to represent a tree structure in something like JSON. XML was a good format for debugging what was going on, and furthermore, XPath turned out to be a godsend. Using a nice query syntax to select elements out of the parse tree for various semantic analyses made the rest of the compiler a lot easier. XML's great entrenched tool base and tree structure are sometimes exactly what a problem calls for.

Thor

www.thurn.ca

Undergrad Nightmare

The midterm exam about itself.

Welcome to the *mathNEWS* examination. This is a take-home exam; it is due in the **BLACK BOX** by 4:00 PM on Monday, February 28th, 2011. We only accept submissions written in blue or black ink and on lined paper, printer paper or sheepskin. Please include your name, your term and your Erdos number on your submission. Once submitted, your paper would be reviewed by at least a writer and perhaps the editors and would be at the mercy of the editors as to what the submissions' final fate is. For the questions, treat all 'true's as one and all 'false's as zero. The reverse is not true.

Without further adieu, the questions of the exam:

1. Which question number contains the first 'true' as an answer?
2. What is the answer to this question?
3. Not counting this one, what is the sum of the question numbers with the four largest answers?
4. What is the sum of the answer to questions 2, 5, 7 and 11?
5. How many prime-numbered questions have a perfect square for an answer?

6. There is a question whose answer is divisible by 3.
7. How many questions have the answer 'false'?
8. Which question number is the first to have an answer that is the product of two distinct primes?
9. What is the answer to the question whose number is the answer to the previous one with the digits reversed?
10. As for all the questions with two digit question numbers, the product and the sum of the answers are both primes.
11. If any, which question is the first to have an answer that is a repeat of a lesser-numbered question's answer (answer false if none)?
12. If you took all the answers and put together the numbers as successive digits of one number, is this number divisible by the sum of the answer to question 1 and twice the answer to question 9?

Feel free to add other comments to your correct solution. Remember, you are at the mercy of the editors.

Zethar

Rainbow Mathies #5

When is someone ready to come out?

Let me just begin by saying that papers are evil, and that I am more than grateful to have this column to turn to when I feel like taking a break and writing something I actually enjoy. You, my readers, are one of the many invaluable tools I used to procrastinate, and for that I thank you. Now excuse me as I go back to inferential statistics for a bit... Oh, wait, the passing of time isn't represented well in this medium, is it? That's good, otherwise this column would get very boring, very fast. Maybe not as boring as some of the... uhm... other pieces this article shares a publication with, but I digress. This is the third article in a term-long series about coming out. In the past we've covered the very basics of coming out and a more deeper look at what coming out means fundamentally. Today I'd like to talk about being ready to come out: what that means, when someone may know if they're ready to come out, and if that's even possible. I'll start with the usual disclaimer: I do not pretend to be a definitive source of answers on this or any other subjects. This column is best considered an opinion column, with maybe a bit of advice thrown in. What I am about to share is primarily my own perspective, and while I have done a fair amount of research in the area, info which I feel did not reflect my worldview was quickly tossed aside. I share this in the interest of sparking discussion and possibly providing some help to those who seek it and to whom it applies, but no more than that. A second disclaimer: coming out is not necessarily for everyone. For whatever personal reasons they may have, people who consider themselves to have a differing sexuality or gender identity may not want to disclose that, for a period of time or for ever. There is nothing wrong or unnatural with this, everyone has their own preferences. With that said, there are those out there who are struggling with these issues, and they may appreciate being able to better answer the question "Am I ready?" This guide was never intended to be for everyone. Got that? Let's start.

What does it mean to be ready to come out? From a theoretical standpoint, I would say that one is only ready to come out when they have considered every possible, or at minimum realistic, consequences that could come from revealing your sexuality to someone, and are comfortable with all of the outcomes. Beyond that, they should be actually want to come out, and they see some tangible benefit to the idea. This definition implies an absolute, that there are no unconsidered alternatives to surprise someone, and therefore no doubt. Practically, this is ridiculous, it's impossible. Not only are we unable to predict or even know every possible outcome to examine, but our thoughts are attracted to doubts like geese to just outside your bedroom in the morning. As hard as you may fight it, your thoughts cling to them, and they never fully go away. You know, like the odor in the comfy lounge? Practically, one will never be fully "sure" they're ready to come out. With that said, people manage to come out anyway, so at some point the risk is manageable and the doubt is more easily overcome. While this point will be different for each person, there are some general indicators that will show when someone is closer to this point. What might these be? Well, I don't know all of them, but I'm aware of some of them from my own experiences or those of other people that I've spoken with. Here are some of them.

For those who missed last week's article, I gave some explanation as to why I believe coming out a very selfish process, but

that this isn't necessarily a bad thing. I feel that worrying about the direct impact of one's coming out on other people is unnecessary and just makes things harder on the person coming out. Personally, when I came to this realization, it made the prospect of coming out drastically easier to imagine and eventually accomplish. With all that said, it's natural to be concerned about how other people's reactions are going to affect you, and how relationships may change as a result. Keep in mind though that these things directly concern you, and are therefore part of the reason why coming out is selfish. There is a huge difference between "I shouldn't come out because I may/will lose connection with my mother" and "I shouldn't come out because then my mom will start to think I won't give her grandchildren, which will upset her" are two very different thoughts. If someone is able to fully distance themselves from others reactions and their impact on this person's own life, then more power to them. It's just another step closer to being ready to come out.

A second possible indicator, which will work well for those of us who are primarily rational when considering decisions. Like every other decision one has to make, coming out has pros and cons associated with it. As time goes on and more information is gathered, these pros and cons of coming out shift and change weight. A good way to keep track of how ready someone is would be to regularly "check up" on this list. Has anything changed? Are there things to add or remove? In addition to that, by making a list, one becomes prompted to consider the items on this list more deeply. By doing so, one may realize that these pros and cons are more or less important than how they may appear at first glance. Self reflection is always very important in every large life decision one makes, from what university to attend to who to date and when to start/dating them. Coming out is no different, and I encourage those considering it to keep tabs on how one's thoughts, concerns, and the importance of these change over time.

A third indicator is very similar to the second, but they are totally opposite in nature. As much as logic and reason are important to this process, so is emotion. It's important to keep track how one is feeling as they go through this process, since emotion tells us, at minimum, how we are reacting to our changing environments. Emotions are more difficult and elaborate on, but at the most basic, level, coming out should make someone feel good. The idea of coming out should be more enabling than confusing, or nerve-wracking. It's important to try to understand why one might be experiencing an emotion, if they are to try and tackle it. Feeling nervous? Can you tell what exactly is/are making you nervous? Have any idea what might be done to alleviate this, at least somewhat? There are difficult questions. Take time to consider them, but don't outright ignore them. Emotions are a great feedback mechanism, and they're seldom completely random. In my experience, trusting them makes sense.

The final indicator I'm going to touch on is an obvious one. A great measure of one's readiness to go out is, well, coming out already. I mean on a smaller scale. Most people come out in steps, you see, usually to certain domains first. These domains can be complicated and subdivided, but simplifying them we may be able to get categories like immediate family, extended family, online family (I'm thinking a close-knit WoW guild, for example), school friends, home friends, online friends, coworkers in

Rainbow Mathies #5 (continued)

the same departments, in different departments, etc... The first, and most important domain to consider is one's self. If a person is unable to come out to themselves and find complete acceptance, well I find it difficult to believe they are ready to continue any further. Again, take whatever time needed, but avoid putting too much pressure on yourself. Anyway, beyond that people tend to treat each domain somewhat differently when it comes to their coming out process (they consider coming out to friends different from family). Therefore, people tend to have different concerns about each domain which they may want to consider. Not only that, but different people in each domain might require a different level of "readiness" in order to feel comfortable enough to come out to them (it may be easier to come out to your best friend than any other, for example.) As one goes through the process, and starts thinking about their readiness in terms of the above considerations or perhaps some others, it may be a good idea to also think about who would be the best person in each domain to come out to first. Then, when you finally do take that plunge, evaluate what worked and what didn't. These reflections may help make you more ready to tackle other members of similar domains in the future.

Wow, this article ended up taking more time and space than I expected. Sadly, there will be no coming out story this week,

since the people who committed to sending one haven't not yet been able to do so and because I've run out of time to find one online. If you feel comfortable sharing your coming out story for this series, have any comments for this column, or would like to suggest future topics, please email them to me at dtaleman@uwaterloo.ca. I will respect your confidentiality, and no names will be published.

If you are queer identified, and are looking for someone to talk to or for supportive allies, there are always resources available to you. You can learn more about GLOW and its offerings, including a phone line at www.knowyourglow.ca. Counseling Services is always available to you, their offices are open 8:30-8MTTh and 8:30-4:30WF, located in Needles Hall across from Student Awards and Financial Aid. If you need support and assistance immediately, you can call the Waterloo Crisis Center at 519-745-1166. If you'd feel more comfortable speaking with someone from a queer specific service, please contact the GLBT Youthline at 1-800-268-9688.

Join me next week as we discuss what to expect when coming out, and some strategies to dealing with the more negative consequences.

Take care,
(define this (not cool))

Good Idea, Awful Idea

This time on: Midterms and assignments

Good idea: Studying for your midterms.

Awful idea: Hoping for a snow-day.

Good idea: Pulling an all-nighter when you've got 3 assignments and 4 midterms in one week.

Awful idea: Pulling an all-nighter when you've got 3 assignments and 4 midterms in one week, but spending all night checking out Facebook and playing StarCraft 2 (or whatever you call that game everybody's playing).

Good idea: Handing in your calc assignment at the beginning of calc class.

Awful idea: Handing in your calc assignment at the beginning of CO class.

Good idea: Maintaining your academic integrity.

Awful idea: Copying the guy who sits next to you on your midterm. Especially if the guy is wearing a Jersey Shore T-shirt.

Good idea: Going to prof or TA office hours to ask for help on the hard questions on an assignment.

Awful idea: Going to prof or TA office hours to ask them out on a date for Valentine's Day. Especially when it's Feb 15 already.

Good idea: Drawing a graph for the distribution of a random variable on your stats midterm, when asked to do that.

Awful idea: Drawing a graph for the distribution of a random cow on your stats midterm. Trust me, I speak from experience.

Good idea: Checking which room your 4:30 midterm is in at 4:00, just to make sure.

Awful idea: Checking which room your 4:30 midterm is in at 4:29, and not realizing that your midterm actually starts at 3:30 and you're an idiot who can't tell time.

Good idea: When you're answering multiple choice questions but don't know the answer, guess C.

Awful idea: When you're answering multiple choice questions but you don't know the answer, you tell the prof you don't understand the question hoping he'd give the answer away. But then he doesn't really give the answer away because he's a bastard, so instead you decide to pretend you need to go to the bathroom and you 'fake-trip' on the way out of class and manage to somehow steal your prof's bag, so now you're in the bathroom rummaging through the bag looking for the answer key, and you find it, and you make sure the answer to question 18 was A. Then you put the answer key back and get back to the room and somehow magically put the prof's bag back in place and get to your seat without anyone noticing, only to realize you already knew the answer to question 18, you needed question 19.

And just to remind everyone- the **Good Idea, Awful Idea Contest** is still going strong. Multiple submissions have already been sent in, but there can only be 1 winner! Will it be you? Not unless you send in your best Good Idea/Awful Ideas in writing, either to the BLACK BOX or to orange.crush.uw@gmail.com. The best submissions will be printed in the final issue of the term, and the one best submission gets a free lunch with Orange Crush. Seriously. Submit today, come on! You could be the great Good Idea/Awful Idea winner!

Orange Crush

Student-Appropriate Etiquette

This is not a funny/satirical/joke article. This is a damn serious piece of writing.

I don't know what it is, but something changed in our UW classes this term. I came back from co-op and suddenly it's like a good portion of random students in all my classes forgot how to behave. I gave them the benefit of the doubt, but it's half-way through the term, it's freakin' Reading Week already, and nothing. There's an outrageous amount of students who are unaware of appropriate classroom etiquette. And I'm outraged.

So here I write, once and for all, The Rules:

1. No talking during class. Seriously, just shut the hell up, I'm trying to listen to the prof.
2. If you just come to class to work on an assignment from another class or surf the web and play games, just stay at home. You're distracting me.
3. I don't care if you've got classes from 8:30-4:30 with no break, you don't eat your lunch in class. Snacks are okay if they're quiet, but as soon as you're opening tupperware or those white boxes food comes in, or if you need a fork or chopsticks, you crossed the no-lunch line.
4. Tall. people. sit. at. the. back. It's your genetic predisposition, deal with it.
5. No talking in class!
6. If you really have to fart in class, just step outside for a minute. Seriously.
7. And if you haven't showered in 3 days, do not come to class. Don't even show up in campus. In fact, just get in the shower right now. And washing your hand at the sink at the MC is not a shower.
8. You come to class early and want to get in, but you're not sure whether the earlier class is finished or not? Just wait outside, don't open the door to check, you're bothering an entire class.

9. And when you enter a classroom, let the people from the earlier class leave first. If the class from before has more than 35% of its people still inside the room, you wait. Really, at this rate they're going to have to install a traffic light in DC1351.
10. When coming into a class, one person can't save more than 2 seats. It's not allowed, and I don't care how many binders you spread around your place.
11. Also, once class starts, the seats you saved are forfeit. Sorry, if your friends can't show up in time, they don't deserve good seats.
12. Until the faculty can afford decent microphones for profs that don't need new batteries twice a week so that everyone can hear the prof properly, stop talking in class!

That's all I can think of. For now.

As a result of an uncountable amount of violations of The Rules this term, I'm initiating the **Orange Crush: Student-Appropriate Etiquette (OC-SEA) Campaign**. From now on, any student in any class at UW who sees anybody violating any one of The Rules is strongly encouraged to give the violator a stern look. When that fails to get a reaction, you should confront the person and tell them: "You're in violation of Rule # (insert number here). Orange Crush says you're an ass". If you're too shy to confront the person verbally, please do so in writing. This will help us stop inappropriate etiquette, and make our UW classrooms a place where students can concentrate and learn in peace.

Join the OC-SEA Campaign! For questions, comments, and support contact the campaign manager at orange.crush.uw@gmail.com. We can take back our classes from those rude people who violate The Rules! Together, we'll wipe those asses out!

Ragin' Orange Crush

FOR LOVERS AND HATERS



FedS Post-Election Analysis

Many considered last week's elections to be a referendum on the legitimacy of the Federation of Students. While it would be feasible to conclude that a Rhino Party victory (in the executive races) would have shown a clear failure on the part of FedS, I'm not convinced that Team Real+Luke's victory is exactly a ringing endorsement either. So let's pour through some of the election results and what they mean for FedS.

Executive turnout dropped

The Rhino Party's primary goal was to increase voter turnout substantially, hoping to at least return to 2009 levels when turnout was around 15.4%. Based on the Presidential ballot, turnout dropped from 9.6% last year to 9.2% this year, according to our calculations.

There is some speculation that this drop in turnout can be contributed to Arts because their Council seats were acclaimed, but I see no evidence of this from the exit poll data. What was likely the case is that students simply did not know when the voting period took place. The week before the elections, *mathNEWS* published a poll showing that half of those who intended to vote didn't know when the polls would be open. While I did see a large number of tweets on the topic while the voting period was open, I saw not more than one poster and even then, it was very much less than eye-grabbing. Long story short, the Elections Committee didn't do a good job of advertising to those who didn't already know about the election, hence the low turnout.

Declined ballots skyrocketed

Declining one's ballot is simply voting "none of the above". In the past couple of years, the portion of declined ballots was around 7-8% for President and 12-16% for Vice-Presidents. This year, it was 13.6% for President, 17.7% for VP Education, and 22-24% for the other Vice-Presidents – almost double compared to last year.

Voters who were not convinced by Team Real or independent candidates were split into one of two categories, both of which ended up roughly equal in size. There are those who felt that the strongest way to send their non-confidence message was with a Rhino vote, and others who did not want to vote for a joke candidate and declined their ballot. I think that part of the reason has to do with the quality and variety of the candidates: this is

the first year in a while since it's been a two-horse race for President – one of those horses being more like a donkey – and the candidates didn't really do a good job at convincing them that they are right for the job. Contrast this to the VP Education race this year, which had a large variety of candidates and a better array of options for students, and subsequently an insignificant increase in declined ballots over 2009.

As far as mandate to govern is concerned, I see Matt Colphon (President) and Natalie Cockburn (VP Education) as the only executives-elect with a real mandate from the students. On the other hand, in their respective two-person races, neither Luke Burke (VP Internal) nor Prashant Patel (VP Admin/Finance) were able to get up to 50% of the non-declined vote – not exactly a ringing endorsement of their candidacies.

Random Vote

Two of the candidates for Math Council – Grace Gavin and Chang Liu – were able to get 59 and 52 votes respectively without doing anything. Let's make a simplifying assumption and say that all Math Council candidates got the same number of votes for something unrelated to their platforms – friends, best name, random, etc. This works out to approximately 44% of votes for Math Council being cast without any regard to the candidate's platform.

I didn't have a chance to talk to anyone who voted at random, though I suspect this is simply the group of people who felt inclined to vote but knew nothing about the candidates. If this measure is similar across the other races (which I have no evidence either way), it makes you wonder how well the candidates are really engaging students. Yes, posters are nice, but so is talking to me one on one. Outside of the debates, I didn't really see much of that going on during the campaign period.

Final Thoughts

In light of the sharp reduction in the number of people voting (and not declining their ballots), FedS really needs to take a look at their relationship with students. I don't know what the solution to this is – perhaps being more visible when they actually take office would help, perhaps not. But it's clear to me that something needs to be done if FedS wants to be taken seriously by the people they claim to represent.

InsideR

N things to do during reading week

We gather yet again for another reading week. Or rather we run away from all of our new university friends into seclusion of an actual break. You may be thinking, what am I ever going to do with all this free time. But have no fear, here I am to tell you about the great things you can do with your break.

1. See your highschool friends: Hey remember those people you knew before you came to this dark hole of studying and death. Yeah those people are still actually pretty cool. You might want to call those guys up or maybe even send them a facebook. You could be pleasantly surprised.
2. Actually talk to your parents and siblings: Even if they don't pay a cent for your education sometimes it is nice to remember the people who supported us for the first 18 years of our lives. Go and give your parents a hug, your younger siblings a noogie and your older siblings a kick in the shin. If nothing else you might actually get a home cooked meal out it, or if your parents are rich a nice restaurant meal out it.

3. Clean your room: Oh man, can you remember the last time you did this? I can't, my room basically accumulates papers and work from different assignments. So get down and clean a bit, you might even find hidden treasure like a shirt you thought was burned in the previous residence fire.
4. Study: Yeah, yeah I know, we are supposed to be getting away from that, but seriously this is the best time to actually catch up on everything you don't understand without having assignments and midterms beating down on your ass. Yeah, it may feel like a waste of your reading week but come exam time you might be thanking me.
5. Fix the *mathNEWS* production system: Nah we're kidding, we know it's impossible.
6. Read: Well its called reading weak so I guess you can actually... nah who are we kidding. No one reads anymore.

DaFink

Horrorscopes

Your Reading Week is Ruined!

ActSci: Reading Week is now upon us, and now you have time to take a vacation. However, you realize that the probability of dying between your house and the airport is non-zero, so you decide to stay home and mope.

Your lucky number is 99.3% chance of dying of boredom.

AHS: Reading Week is now upon us, and now you have time to return to the gym to enhance your physique. However, in your quest to regain this physique, you tear some apparently-important muscle in your leg. You are now stuck eating crisps all week.

Your lucky number is 15 pounds gained.

Applied Math: Reading Week is now upon us, and now you have time to prove a cure for cancer. You take your proof to a Science student, who burns down the lab when trying it out. Your dog then dies of cancer.

Your lucky number is -1k9.

Arts: Reading Week is now upon us, and now you have time to drink. Mind you, you always have time to drink, so in realizing that the beer won't drink itself, you immediately proceed to drink it.

Your lucky number is 3 nasty hangovers.

CFM: Reading Week is now upon us, and now you have time to fix all the bugs in my tax software. You will insert code that deposits half of a filer's refund into your bank account, bringing great wealth to your family.

Your lucky number is 25 years in prison.

C&O: Reading Week is now upon us, and now you have time to optimize your study schedule for the week. You lock yourself in a room in your plan for better grades, but when you emerge, you realize that the week has been over for three days.

Your lucky number is 3 midterms and an assignment missed.

CS: Reading Week is now upon us, and now you have time to play more video games. You become distressed by your mother frequently calling for you in her basement, so you reluctantly come out from underground in the name of home-cooked dinner.

Your lucky number is 1 weird meat.

Double Degree: Reading Week is now upon us, and now you have time to do your taxes. You are filled with great relief when you finish, but then realize the number at the bottom is not your refund.

Your lucky number is \$573 in taxes due.

Engineering: Reading Week is now upon us, and now you have time to drink. There will be jolly times until the results of your hell week return to you. Then you will relieve your suffering with more alcohol.

Your lucky number is two 24s in two days.

Environment: Reading Week is now upon us, and now you have time to save the world. You will chain yourself to a tree in order to protect the last of the green space on campus, but it is of no use. You get tossed away with the trees, because the chain cannot come off.

Your lucky number is 3 trees destroyed.

Pure Math: Reading Week is now upon us, and now you have time to continue useless mathematical research. Your latest creation will be a proof that $1=1$. You will then wonder why you spent your week doing that instead of getting laid.

Your lucky number is 36 pages.

Science: Reading Week is now upon us, and now you have time to catch up on your random experiments that you've been putting off. In your quest to find a cure for some little-known disease, you set your lab ablaze. It is now unusable for the next three terms.

Your lucky number is 911.

Soft Eng: Reading Week is now upon us, and now you have time to search for women. You quickly come to the realization that the reason that women avoid Soft Eng is largely because of you. You then go segfault in shame.

Your lucky number is `*(void*)0;`

Stats: Reading Week is now upon us, and now you have time to analyze student migrating patterns during the week. You then realize that you didn't get any data for prior to mass exodus, rendering all of your work pointless. You then return home to cry.

Your lucky number is 93% of people leaving.

Teaching Option: Reading Week is now upon us, and now you have time to get away from those pesky brats. Early on, though, you quickly discover that they constantly haunt your dreams. You are then reminded that Reading Week for the brats is not for another month.

Your lucky number is 28 days of torture.

Undeclared: Reading Week is now upon us, and now you have time to actually pick a damn major. However, you then realize that you are indecisive, and decide to put it off again while you fly a kite.

Your lucky number is 5 years of no planning.

Other: Reading Week is now upon us, and now you have time to find someone to love you. You discover that your quest quickly becomes unsuccessful, and so decide to die in a fire.

Your lucky number is Fahrenheit 451.

mathEYE

University Ends One Waterloo Campaign, Preps Successor

Twenty-Seven Waterloo Campaign to Begin Soon

The University recently has announced the retirement of the One Waterloo campaign, after it was lambasted about being too effective in unifying the student populace in one voice. It seems that once they told that they were One, students began acting in a hive mind, barricading Needles Hall until Hamdullahpur appointed a new Vice President who was better suited to torture. This new VP, recently a student, came up with a plan to fix the problem, and then promptly committed suicide, after realizing what he had done. The lamestream media of course did not cover

this death, similar to the many other suicides from students.

The plan has been announced as the Twenty-Seven Waterloo campaign, named after the many places that Waterloo leases or owns. The plan entails dividing the student populace into manageable chunks and shipping them around the world, allowing for easier control over them. The green men will be coming to take you away. *mathNEWS* urges that you run, for your own safety.

Ice Nine

Orange News

Welcome to yet another edition of Orange News, the news YOU don't care about, brought to you just when YOU don't really want to hear it.

This time, we bring forth the results of a shocking journalistic investigation conducted right here on campus by your attractive and manly reporter- drugs on campus.

That's right, the UW campus has been infected with a drug that's had a visibly adverse effect on students life. According to statistics I made up, the Math faculty appears to be the most seriously affected, with over 60% of students having admitted to trying the drug, and 35% doing so on a weekly or more frequent basis. The Engineering faculty is in second place, while, in a shocking surprise, Arts students are not as hopelessly addicted as Mathies.

The drug we're discussing has been around for a long time, with its sources apparently rooted in far Asia. It is a 'social' drug, an 'upper', and is usually consumed orally, though some have been known to smoke or inject it directly into their veins. The drug's most commonly used street-name is, according to my sources, 'bubble-tea'.

No one seems to understand where the drug got its name from, since it looks, smells, or tastes nothing like tea in any way, shape or form. Nor does it contain bubbles, in the 'airy' sense. However, it may contain weird ball-shaped substances that, as far as I can conclude, contribute to the 'happy' and 'energetic' feeling experienced by those who consume it.

Bubble-tea penetration has been on the rise in and around UW. In fact, I have managed to ascertain beyond a shadow of a doubt that bubble-tea has found its way into campus, and that several social events of various 'clubs' serve bubble-tea to its members. I am sure the students of Waterloo, and the Math faculty in particular, will be very concerned with these findings.

Although not listed as a narcotic by any known health-association, bubble-tea users have admitted that the drug is 'dangerously addictive'. A preliminary scientific investigation has found no harmful substances in bubble-tea, nor have there been any conclusively negative effects on any users. In fact, it has been hard to prove that bubble-tea even constitutes a drug at all, at least not any more than your plain Tim Horton's coffee is a dangerous narcotic.

That said, it is clear to me that the bubble-tea phenomena is troubling

But what do YOU, the students of UW, think?

Legolas, a 4A Ring-Theory student (whose real identity has been concealed), said "I am hopelessly addicted to bubble-tea. I drink it like 3, 4 times a week. It's sooooo good! I don't know what I would do without my bubble-tea. I would die. It's the best thing in the world. I'm in love with bubble-tea".

Gloria, a 3A student in something, I think, (I forgot to ask her what program she's in), had this to say- "bubble-tea is not a drug... what are you talking about?"

Diane, a 2B CS student, keeps running away from me whenever I approach her now. If you see her, please let her know she dropped her glove, and will have to agree to an exclusive interview with me if she ever wants it back.

So there you have it. Bubble-tea: a harmless yummy drink, or a drug that's been dangerously overtaking our student population? That's for you to decide. But next time someone offers you bubble-tea, think twice before you consume the addictive, delicious treat.

Join us next time as our awesome reporter investigates the quality of beer at the Bomber by drinking non-stop all night long.

Orange Crush

Ask Gully

A friend of mine asked me, the other day, "Where do babies come from?". I was under the impression that, by now, everyone was well aware of the details. It seems, however, that some people are not. So, in this issue, I will explain, in great detail, where babies come from.

The process begins with a man and a woman who love each other. They will then go to a movie, where they order popcorn. The type of movie will have a significant impact on the personality of the child. For example, a comedy will produce a comedian, a romance will produce a hopeless romantic, a documentary will produce a nerd, and a crime movie will produce a clown who specializes in complex balloon animals.

The second step involves the man and woman ordering popcorn. This step is crucial since it determines the gender of the baby. If the woman eats more, the child will be female, and if the man eats more, the child will be male. Upon finishing the movie, the popcorn bag is discarded into the trash. Theater staff then collect the empty bags, and send them to a team of genetic engineers who specialize in human reproduction. Twins, triplets etc...

occur when more than one bag of popcorn is used.

Back at their lab, the genetic engineers recover trace samples of DNA left on the popcorn bag from the parents. Through advanced DNA cloning techniques, genes are taken from the mother and father, put together to make a single cell with the proper DNA. This cell is then incubated, and eventually grows into a full baby. Hospital staff (usually an obstetrician) will then retrieve the baby from the genetic engineers lab, and deliver it to the parents. The mother usually finds this to be very stressful and should be lying down on a hospital bed at this point. And that's where babies come from.

Now, I know what you're thinking. If you need genetic engineers **and** movie theater staff to make a baby, then who came first? Well, this is an open question and the subject of much debate, but there are a few popular theories. One theory says that the original genetic engineers and theater staff were actually apes. Others believe that they were created by some higher power (most likely mathematicians) and a few believe that they have simply always existed.

Gull E. Bull

N things to make a romance more awesome

- Ninjas, of course.
- Sky Pirates, of course.
- Being in space, of course.
- Laser-based weaponry
- Mind powers/tricks
- A timer that stops at under 1 second
- Aliens, of course.
- Mystic creatures
- A conspiracy
- A love polygon
- A love directed graph
- An outrageous dream sequence
- Magic, of course.
- Super powers
- The Rhino Party (or equivalent)
- Big stompy robots, of course.
- Dinosaurs, of course.
- Zombie outbreak
- A personal soundtrack/theme song
- Rock opera background music
- *Old Spices* poofs
- An outrageous accent
- Internet memes
- Butter (as a subclass of lube)
- Epic fight scenes
- Bad dairy jokes
- Bacon
- Epic loot
- Montages
- When the famous purple stuffed worm in flap-jaw space with the tuning fork does a raw blink on Hara-Kiri rock! *I need scissors! 61!*

Soviet Canadian

(with a little help from ieatyourSANDVICH and
waldo@<3.LE-GASP.ca)

profQUOTES

I'm afraid to make a joke now since some of you will write it down.

Smith, ECON 102

He's your customer and killing him would not be a good plan.

Smith, ECON 102

Calm down! I can't make the economy simple!

Smith, ECON 102

It's clever as long as you don't think about it too much.

Smith, ECON 102

Why would I give you resources if I'm about to invade you?

Smith, ECON 102

God, I love the tea of knowledge

Mann, PHYS 444

[On Elementary Particles] Better you pick it up here than on the streets, as they say.

Mann, PHYS 444

Jeopardy Game to Decide Fate of Humanity

I, for one, welcome our new metallic trivia-answering overlords

Last June, IBM announced that over the past seventeen years it has been working covertly on an artificial intelligence. The announcement was prompted by the somewhat less good news that the machine had infiltrated the networks of not less than seventeen nuclear silos belonging to four different countries: USA, Russia, North Korea, and the Vatican City, who were prompted by the news to stage an embarrassing and hasty press conference in which the Pope declared the Vatican as a nuclear power.

The rogue AI, codenamed Watson (World-Annihilating Trivia Solving Ontological Network), demanded a contest with humanity, with the stakes being the world itself. Not being in a position to bargain, the UN accepted Watson's challenge to a game of Jeopardy. Humanity put forward Ken Jennings (holder of the longest Jeopardy winning-streak) and Brad Rutter (holder of the record for highest winnings on the same) as its champions.

While the contest is still ongoing and will not conclude in time for press, I can safely state that Jennings and Rutter emerged victorious. Because if they didn't, the world is now a nuclear wasteland and no one will ever read this article. Details about humanity's glorious victory are now available online, if "online" and "humanity" still exist.

Image

A letter to InsideR

In response to InsideR's letter complaining about the length of articles, I would like to say you are no longer editor. You had your time as editor and we all saw the resulting cheap jokes and electioneering. I, for one, support GroovyED and FuzzyED's choices. They are try to bring *mathNEWS* in a new direction, with articles that have some actual depth and value beyond simple humour.

YAS

P.S. Short enough for you?

This is a cube (whispered) Right? Duh!

Mann, PHYS 444

If I do this, I will convince you... that I don't know what I'm doing.

Mann, PHYS 444

It requires an Octopus to do this demo properly

Mann, PHYS 444

I was born with only two hands, an accident of birth.

Mann, PHYS 444

So you want to sit cloer to the walls on an exam, so time will run slower

Taylor, PHYS 275

You could take Jupiter apart, use it to cover the sun, capture it's energy and power your game boys

Taylor, PHYS 275

profQUOTES II Attack of the Profs

Small fluffy things get torn apart very easily... what do I on the weekends is my own business.

Taylor, PHYS 275

I can live off a box of pasta for 15 days?

Taylor, PHYS 275

A candy bar has as much energy as a car going 60 miles an hour.

Taylor, PHYS 275

When we say we need 2000 calories a day, we really mean 2,000,000 calories... which may make you feel better or worse about your diet.

Taylor, PHYS 275

Fahrenheit makes a lot of sense in the lab, and very little anywhere else, which is why they use it in the US.

Taylor, PHYS 275

This is a lamp. It has a special piece of scientific equipment... called a lightbulb.

Taylor, PHYS 275

You can throw moles in there if you want no one to understand what you're talking about.

Taylor, PHYS 275

You could go to Mars and emit a lot of methane. How you do that, I leave up to you.

Taylor, PHYS 275

[On Integrals] It's not like heart surgery - if you screw up, no one dies.

Zorzitto, Math 148

I'll try not to put you to sleep, I wrote this in as exciting a way as possible.

Zorzitto, Math 148

[On proofs] Hey, some people like chewing sawdust.

Zorzitto, Math 148

By a certain theorem, known as "the epsilon thing."

Zorzitto, Math 148

Did I repeat that enough? Or do you want me to say it one more time?

Zorzitto, Math 148

(allocates a pointer) And so, way off in the land of Mordor, orcs are being created...

Godfrey, CS138

What's wrong with this? Don't say "penmanship"!

Godfrey, CS138

Remember one thing, though, when you write the midterm I want you to have fun! Don't compete with each other, don't look at the average, just compete with yourself. Then, if the people around you are struggling and having trouble, rejoice!

Mansour, ECE106

For those of you coming in late, please watch "The Prestige" this weekend.

Dupont, MATH119

...and if $L=1$ then you flip the table in front of you and swear a little.

Dupont, MATH119

The Taylor series is *rampant* with factorials. It's a factorial *whore*.

Dupont, MATH119

So if you forget the formula you're about to see, you can always do this to re-derive it, just by taking two Taylor series. Well, infinite Taylor series. But that's *like* two.

Dupont, MATH119

This is an exercise for you. It's a lot of fun. I always say that exercises are fun...except physical exercises.

Pei, MATH135

I'm very curious what's going on behind this screen! (looks at computer in the front row; Dead Rising 2 is on the screen) Ah, must be the Fundamental Theorem of Arithmetic, zombie version.

Pei, MATH135

What is *that*? (looks at computer in the front row; Assassin's Creed is on the screen) Hmm, there's definitely a division algorithm in there.

Pei, MATH135

Typical, I get no reaction for writing '42' but I do get one for '13 * 37'...

Pei, MATH135

gridCOMMENTS*Slavery is Freebird*

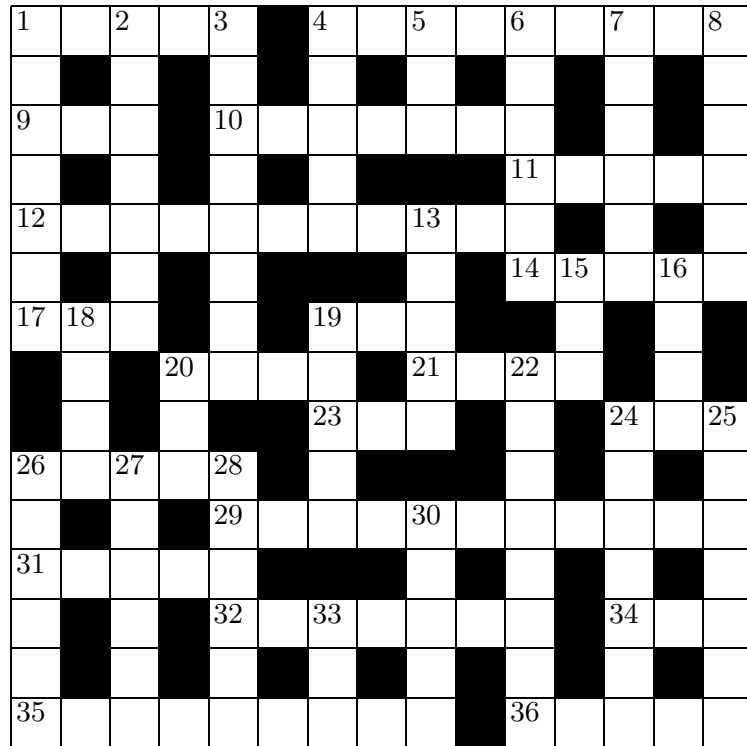
Greetings. The Ministry of *gridWORD* reports doubleplusgood number of *gridWORD* submissions. Minigrd would like to remind you that we are, and always have been, at war with Imprint, and to thank our plusgood allies at Iron Warrior. Minigrd reminds you all that this is the twenty-seventh year of plusnumberful submissions and there have never been times with plusunnumberful submissions.

Congratulations to all submissions; many answers to the *gridQUESTION* were plusgood. Minigrd congratulates the correct solution with plusgoodest answer to the *gridQUESTION*, Michael Kalsi. Last issue's question was, "What is your quest?" Minigrd states that his answer was "My quest is the website I use to enroll in classes." Minigrd requests that you arrive at Minimath in MC 3038 to receive prize.

It is the official position of Minigrd that this issue's *gridQUESTION* is "What is the goodest thing Big Brother has done for you this week?" Minigrd would like to remind you that we are, and always have been, at war with the Iron Warrior, and to thank our plusgood allies at Imprint.

-perki

GRIDWORD



Drywaller

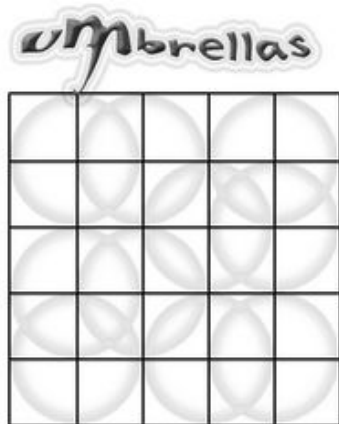
"Listen up. Our client isn't picky, as long as each square has the right number of walls surrounding it. Sounds a little tricky, but we didn't get to be the #3 drywall outfit in town by being lazy."

Also:

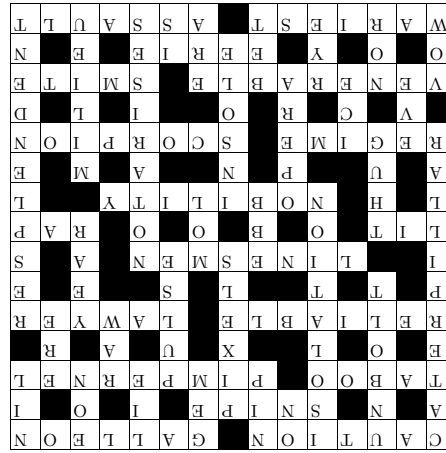
- There's a wall around the outside
- They want exactly 17 rooms

2	3	4	2	1	1	1	1	2	3
3	4	4	1	0	0	0	0	1	2
3	2	3	1	0	0	0	0	1	2
2	1	2	1	0	0	0	0	1	3
1	0	1	1	0	0	0	0	1	3
1	0	1	2	1	1	1	1	2	2
2	1	2	3	2	3	3	3	3	2
3	2	3	2	1	1	1	2	2	3
2	1	2	2	1	1	2	3	2	3
2	1	1	3	4	3	2	2	2	3

Place the following 10 squares on the 10 circles so that the overlapping numbers match up.



0	2	2	7	5	1	8	4
3	6	6	8	4	0	5	4
4	0	3	1	1	5	4	3
4	5	4	3	3	2	3	2
2	5	5	4				
7	4	4	4				



Last Week's Answers

Quick Clues

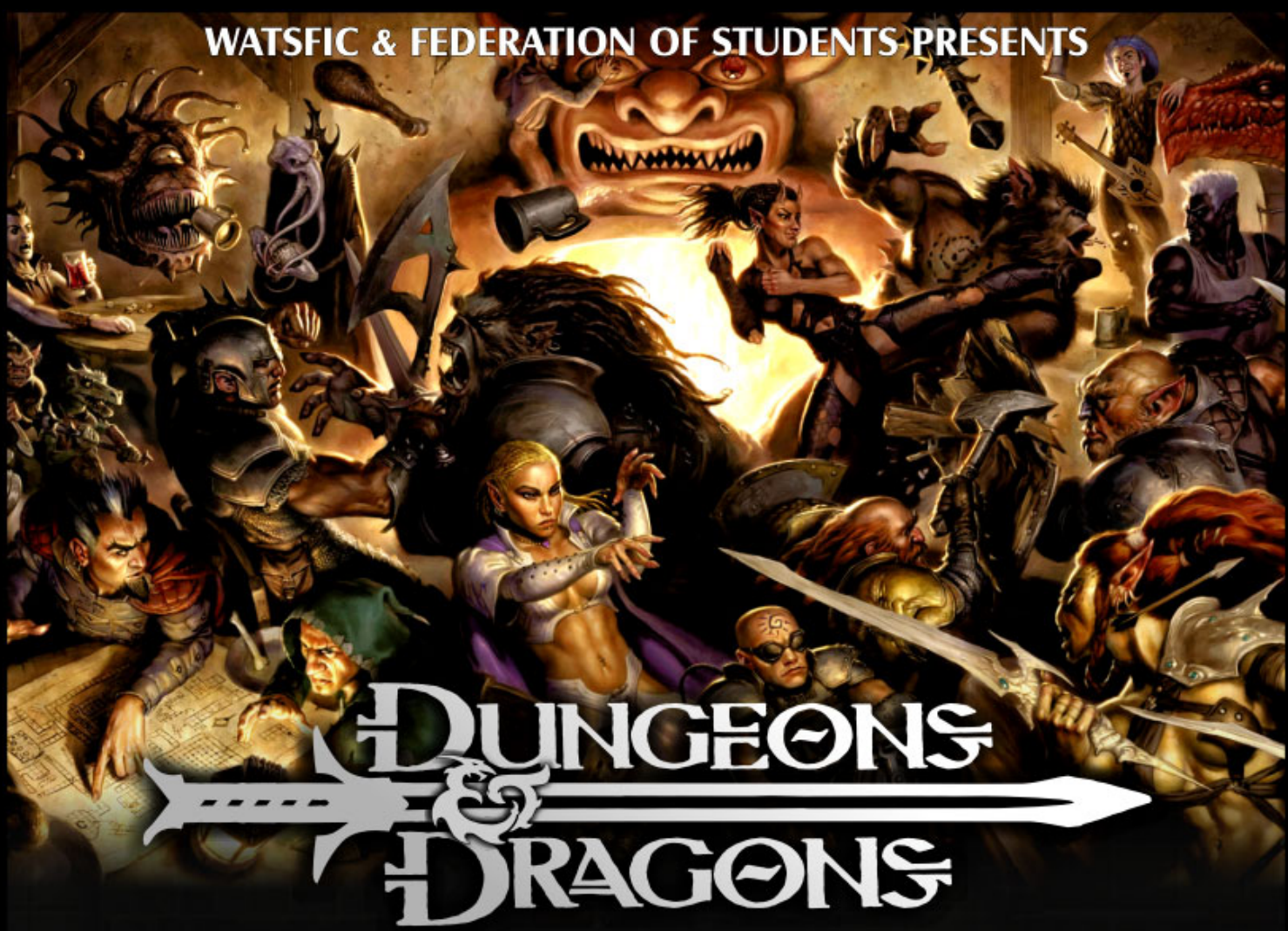
Across

- Small double-reeded woodwind
- Instrument made from long hollow branch
- Toward the stern
- African toned percussive instrument
- 70's pop music
- Incomprehensibility
- Wimp
- Every
- Swamp
- Small Greek harp
- Vigilant or watchful bird
- Tantrum
- Cylindrical cooking ware
- Narrow horizontal surface
- Sleight of hand
- Bowed string instrument
- Small flute
- Recede
- Most politely damned
- Ornamental column groove

Down

- Egg-shaped wind instrument
- Relating to sight
- Composition for a full orchestra
- More urgent
- Block a river
- Avoids
- Coloured eye parts
- Unconsecrated
- Time before dawn
- Type, kind, breed
- Alone
- Plucked string instrument
- Confuse
- Fallen tree trunk
- Lycanthrope
- Mesa
- Justifiable
- Taxed
- Cattle driver
- Pass
- Bat's day location
- Actor's signal

WATSFIC & FEDERATION OF STUDENTS PRESENTS



DUNGEONS & DRAGONS

T O U R N A M E N T

Dungeons and Dragons 3.5E Tournament

While experience is helpful, the tournament is primarily scored on role-playing so it is not necessary.
Teams of 5 or individual sign up.

Tournament occurs on Saturday, March 12, 2011;
Registration closes March 5th, 2011.

For more info or to register, visit www.watsfic.uwaterloo.ca/dnd/
or contact watsfic.dnd.tournament@gmail.com.



watsfic.uwaterloo.ca
watsfic@gmail.com

Location of events will be posted online and in our mailing list.

We levy a membership fee of \$4 per term or \$40 per year; most of our events are open to non-members although we ask that people join if they participate in the club frequently.

JOIN OUR MAILING LIST!

Andrew Abrahamowicz

Computer Science '02 | Cozi - Director of Service and IT Operations

Andrew gets itchy every 4 months or so. At least, he used to, since it took some time to break out of the typical work/school cycle after he starting full-time at Amazon upon graduation. During his undergrad, Andrew realized the importance of pushing one's limits; taking full advantage of his co-op terms to work across North America. Today, he is employed at Cozi, a business that creates family-coordination applications. Listening to an entrepreneurial bug inside of him, Andrew joined Cozi at a very early stage in the company and is reaping the rewards. He greatly looks forward to the day he has the chance to embark on his own venture when all the pieces fall into place. Regardless of how his career plays out, Andrew is a firm believer that "the journey matters just as much as the destination."

Priya Mathews

Actuarial Science '06 | Mercer – Actuarial Analyst

Remember in first year how we were always encouraged to get involved in clubs and organizations at school? I think Priya listened. As Women in Math Undergraduate Chair, co-founder of the Rotaract Club, and holder of an array of additional roles with MathSoc among other groups, Priya truly believes that she is richer today for her extensive campus involvement. Upon graduation, she began pursuing her career as an actuary, navigating the challenges of managing people's expectations and office politics. Priya wisely advises the students of today to not get blinded by the job with the best pay – it's much better to switch academic or career focus and to find peace in something you enjoy doing than trying to push through a career that you have to struggle with. And most importantly, make the most of University while we're here!

Dan Petker

Computer Science '08 | Desire2Learn – Product Designer

You may be tempted to call Dan a "cop-op guru" of sorts, having been involved in the program both as a student and as a co-op supervisor for Sybase in Waterloo. Dan recognizes that the "real world" is very different from the academic world, and praises co-op for giving students a great handle on how things will be after graduation. On the job, he is constantly given the opportunity to not only apply the problem-solving skills his undergrad equipped him with, but also course concepts he learned in UI and Human Computer Interaction classes. Throughout his University experience and still today, Dan has been working with a number of local theatre groups in KW, and stresses how having connections to the community at large can prove integral for succeeding in work and in life.

Rebecca Liu

Computer Science '00 | BMO Capital Markets – Relationships & Account Management

Diversity of experiences is the name of the game for Rebecca. A CS graduate, she spent co-op terms as an application developer for a start-up IT firm. Today, as she heads Business Relationships and Account Management for the BMO Capital Markets and Risk Management technology group, Rebecca jointly leverages her technical CS skills from her undergrad and her business expertise gained from her Ivey MBA at UWO. More than ever, she believes UW is robustly equipped to bridge the gap between the real world and the working world for students. Individuals with the ability to adapt to different environments paired with a "can-do" perspective will always be in highest demand upon graduation. While Rebecca is a proponent of goal setting, she emphasizes that it's important to be flexible as new roles and opportunities are constantly emerging for those who are cognizant and aware.

Brian Glick

Computer Science '04 | Youtube - Product Manager

Watching videos all day at work? Preposterous! Not if you're Brian, who is helping grow one of the world's largest websites, Youtube. Prior to graduation, he thought he was destined to spend his days climbing the corporate ladder. That all changed after spending time with Microsoft and Youtube. Today Brian is passionate to start his own company, realizing that if you possess the skills and the drive, doing it on your own is a great path to take. More than anyone, he understands how integral ambition is in achieving success, and knows that University is the best time of one's life to experiment with ambitious ideas. Coming out of his undergrad, Brian felt he underestimated how much of the working world was based on strength of relationships, and wisely advises us to jump on chances to step outside of the academic world now and then.

Rosemary Taylor

B. Math '68 | Happily Retired since '96

Rosemary strongly believes that a good education in a field that a one enjoys is paramount for one's future. An avid scholar herself, Rosemary attended the Executive Program at Queen's School of Business in addition to undergrad at UW. Programming on her first job in FORTTRAN, she enjoyed a successful career working with computer mainframe systems for 29 years with companies such as Air Canada, the Gemini Group, and Advantis Canada. Rosemary's best advice for students today is to never give up, and to take advantage of the networking opportunities that University allows. Rosemary and her husband Ken have generously established the Rosemary and Ken Taylor bursary fund at UW to help make higher education possible for passionate students.

I don't know the key to success, but the key to failure is trying to please everybody

WITHOUT
COURAGE,
WISDOM BEARS
NO FRUIT

Keep your eyes open and stay flexible with the times

Figure out how to be yourself, not someone else

CHOOSE opportunities that you are keenly **PASSIONATE** about – those are the ones that will **RESONATE** most when you look back and may in fact open better and **UNEXPECTED** doors for you

Social networking is instrumental in future job prospects

WE ARE RICHER FOR OUR INVOLVEMENT IN CAMPUS CLUBS AND ORGANIZATIONS

EXERCISE

Your body & mental health are important and often neglected

Whether you believe you can do it or not, you are right **PUSH YOUR LIMITS** **BE WILD** **IMAGINATION** is more important than **KNOWLEDGE** always ask yourself if you would regret not doing something getting better and better reputation just keeps

WATERLOO'S Try ambitious ideas - at school **FAILURE** is easiest to recover from regret for the things we did can be tempered by time, it is regret for the things we did not that is **INCONSOLABLE**

WORDS OF **WISDOM** ALUMNI INITIATIVE

"Wisdom is not a product of schooling but of the lifelong attempt to acquire it."

MathSoc proudly presents the Alumni Feature Initiative - a project providing us as students the unique opportunity to gain insight into the lives of those who have been where we stand now.

The compendium of quotes on this page are bite-sized words of advice from both our alumni themselves and their favourite icons, designed to remind us of how to make the most of our experience at the University of Waterloo. On the reverse, you will find short bios on six of our successful alumni.

We hope you enjoy the feature - going forwards, MathSoc will continue to explore new ways to bridge the gap between current students and our alumni.

Credited by: Max Spear

10 YEARS AGO **EXIST** THAT DIDN'T EVEN **EMERGING** NEW ROLES ARE

INVOLVEMENT helps you stand out from the pack - whether it's for a **JOB** or **GRAD SCHOOL** application

ASK QUESTIONS never be afraid to ask for help



Not everything that can be **counted counts**, and not everything that **counts** can be **counted**

JOB DESCRIPTION: What's posted is just a starting point, what you make your job is up to you

NOTHING GREAT WAS EVER ACHIEVED WITHOUT **ENTHUSIASM**

when it comes to skills **HARD** is just as important as **SOFT**

Waterloo is a melting pot of brilliant minds

HEARD IT PAYS WELL INTO A PROFESSION BECAUSE WE'VE ALL TOO OFTEN WE ARE EAGER TO GET

CREATE a system, or be **ENSLAVED** by another man's