

math

NEWS

Volume 91, Issue 1

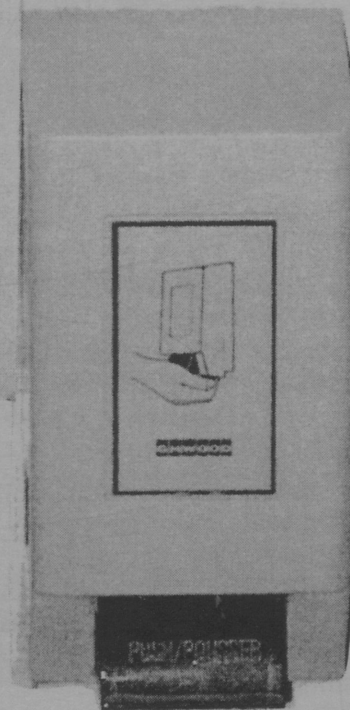
Friday, January 17th, 2003

**THIS DISPENSER
TEMPORARILY
UNAVAILABLE**

*Sorry for the
inconvenience*

**PLEASE SELECT
ANOTHER**

Thank You



Good clean fun

Call for Nominations:

Undergraduate Student Seats on Senate

Nominations are requested for the following undergraduate student seats on Senate:

Math Faculty seats:

- One student elected by/from the full-time undergraduate students in the Faculty of Mathematics, term from May 1, 2003 to April 30, 2005.

At-large seats:

- One student elected by/from full-time undergraduate students, term from May 1, 2003 to April 30, 2005.
- One student elected by/from full-time undergraduate students, term from May 1, 2003 to April 30, 2004.

Nomination forms are available at <http://www.adm.uwaterloo.ca/infosec/nominations/ugtosenform.html> or from the Federation of Students Office. At least five nominators are required in each case. Nominations should be sent to the Chief Returning Officer, Secretariat, NH 3060, no later than 3 pm, Friday, January 17, 2003. [NOTE: That's today! — KreasEd] Elections will coincide with the annual Federation of Students' elections (February 7-14).

Math students Stephen Skrzydlo (Math) and Douglas Stebila (at-large) will be completing their terms of office on Senate as of April 30, 2003.

Refer to the following web sites for information about Senate: the University of Waterloo Act (<http://www.adm.uwaterloo.ca/infosec/uwact/uwactindex.html>) and Senate Bylaws (<http://www.adm.uwaterloo.ca/infosec/Senate/senindex.html>) and Committees and Councils (<http://www.adm.uwaterloo.ca/infosec/Committees/committees.html>).

Thank you.
Tracy Dietrich (x6125)

Ask Dave?

So, now that you are at University, do you miss the ability to ask your parents for advice? I am offering to answer any questions you might have. After spending lots of time doing nothing, I feel wholeheartedly qualified to provide writers with completely useless responses to any questions they may ask. So feel free to write me letters seeking advice and I will post my replies in the next issue of *mathNEWS*.

Feel free to ask any question you would like.

EXAMPLES

What should I name my new pet Tazmanian Devil?
What is the best way to ask someone out with pretzels?
How many digits are there in the decimal expansion of pi?
Who stole the cookie from the cookie jar?
If people are always confusing me with my evil clone what should I do?
How do we import psych girls into math?
Please send your questions to: jd2nico@uwaterloo.ca.

Dave Nicholson

lookAHEAD

mathNEWS

January 17	Issue #1 rides a toboggan down Village Green
January 25	<i>mathNEWS</i> turns the Big 3-Oh
January 27	Issue #2 Production Night 6:30 pm, MathSoc (MC 3038)
January 31	Issue #2 counts down to a new year

Math Faculty

January 17	Last day to add/swap classes
January 24	Drop Deadline

MathSoc

Thursdays	Movie Night
January 19	Midnight Capture the Flag
January 24-25	EngScunt
January 24	Last Day for MathSoc fee refund Take the refund and we'll hunt you down

MEF

January 24	MEF Fee refund deadline
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MGC

Wednesdays	Pizza
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Co-op

January 28	Postings End
January 29	Interviews Begin (already?)

Miscellaneous

January 18	The term's yet to begin ... if you live by the Julian calendar
January 20	Martin Luther King Jr. Day
January 23	The day is easy as 1-2-3
January 25	(Robert) Burns' Night
January 26	Super Bowl Sunday aka "\$4 million ads day"
January 27-30	Blood Donor Clinic

Orientation Needs A Few Good Leaders

Actually, we'd like a lot of good leaders. This is where you the faithful *mathNEWS* reader comes in. You may not realize it, but many of your fellow *mathNEWS* readers are also Orientation Leaders. Now, thanks to our special offer, you too can join the ranks of Leaders. Get started today by filling out an application form! You can either fill out the paper version available on the wall across from the C&D or you can fill out our spiffy online version at <http://orientation.uwaterloo.ca> (Note: no 'www'!). After you've filled out your application, sign up for an interview. Do it quick so all the good times don't get taken! Sign up sheets are posted on the door of the MathSoc office. See you soon!

Craig D'Amelio, Yolanda Dorrington and Louis Mastorakos
Math Orientation Directors 2003

Colours

- Red
- Amber
- Yellow
- Indigo
- Silver
- Violet
- Purple
- Aqua
- Salmon

Sign Up for a MathSoc Office Hour

What does MathSoc do for you?

- Provides cheap (5 cents) photocopies
- Provides cheap bindings for work-reports at the beginning of the term
- Organizes fun activities for Math Students — past events involve Cove Night Charity Ball, Formal Friday ...

Most importantly, it's fun.

Anyone interested in holding an office hour should sign up on the MathSoc door, or contact:

office@mathsoc.uwaterloo.ca.

Anyone who doesn't want to commit to an hour session can volunteer on an event basis by signing up on the form on the MathSoc Office door.

Hope to hear from you all soon.

MathSoc Recruiter

Counselling Services

A new year, a new term. Did you make a resolution to manage your time better this term? You CAN learn to STUDY SMARTER, NOT HARDER! Take advantage of the many FREE workshops offered this term at Counselling Services in Needles Hall:

- Study skills
- Personal growth
- Career exploration

Please check the Counselling Services website at www.adm.uwaterloo.ca/infocs/ for additional workshops offered to University of Waterloo students.

Plus, new this term, the following workshops are free for students in the Faculty of Math. Sign-up on the sheet in the yellow folder in the Math Undergrad Office (MC 5115) :

- **Time Management:** Tuesday, January 21, 3:30–5:00 pm in MC 4058
- **Stress Management:** Tuesday, February 18, 3:30–5:00 pm in DC 1302 and Thursday, March 6, 3:30–5:00 pm in MC 5136
- **Exam Preparation:** Tuesday, March 25, 3:30–5:00 pm (location to be announced)

For more information on the above workshops, please check the bulletin board outside room MC 5198, the Counselling at Math website at www.math.uwaterloo.ca/navigation/Current/counselling.shtml, contact Karen Rittinger, Counselling Services, at extension 5622 (afternoons), or email kritting@uwaterloo.ca.

Karen Rittinger

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

Superfly: Louis Mastorakos and Chris Harasemchuk

The VPAS Cornered

The current mathNEWS dictator, namely Louis (who's apparently no longer in Alberta) has banned me from ever writing the *Frosh Cornered* ever again. [Whew, I was worried I'd have to do that — *KreasEd*] He, however, did not ban me from writing ... THE VPAS CORNERED.

Alright, the name IS pretty bad. I promise not to name this the VPAS Cornered ever again.

If you aren't acquainted with my booming voice on the third floor already, I am Raymond, the newly elected VP Activities and Services for YOUR wonderful Math Society. I have an EXTREMELY open door policy. In fact, I wish that the door was transparent, or even a forcefield can be constructed in place of a door, but both will require technology that none of us have the knowledge to create ... yet.

Please do stop by and speak to me about anything you would like to see happen within MathSoc or events you would like to see run. Student participation is always important on my list ... which I have currently misplaced.

The Winter 2003 term will be a terrific one to unravel. We have an excellent line of events to titillate all your senses. These include, in no particular order:

- Pi Day
- Laserquest Nights (An crazy overnighter is in the works)
- Math Cove Night
- Charity Ball
- Movie Nights
- Wireless LAN Tournament

In addition to our fun social events, MathSoc will also take a stance of responsibility to the community as we will be offering our volunteering corps to worthwhile local organizations in charitable events.

A new project that the administration and MathSoc will be spearheading is a new mentorship program that bridges pre-frosh to the life that is Faculty of Mathematics. I'd like to call that project (start quotation hand movement) "Project M4th" (end quotation hand movement).

We are currently looking for enthusiastic **volunteers** to join our dynamic team at the Math Society. We have directorship spots and volunteer team spots open, so come and talk to us at the MathSoc Exec office for more information. You'll quickly find out that putting in a little time each month will bring about rewards that you can't find in lectures or tutorials.

That's it from me for now. Again, stop by the office and chat with me. My door is ALWAYS transparent. In fact, if my door isn't transparent today, I'll give you CANDY (while supplies last).

The Cornered VPAS,
Raymond CT Lai
VPAS, W03

MCTF: Midnight Capture the Flag

Gather this Sunday January 19th in the Comfy Lounge at 11:59 pm. To hear the story. To play the game. To have the fun. You know you want to.

The one true The Manager

A New Olympic Sport

(Or: "Like balls? Step on ours ...")

Usually, at dancing meets, the object is to dance as much as possible with as many different people as possible. Dancing experts will, as wont to, request strange and unusual songs from the DJ; extreme dancers will even request obscure 16th century Indian compositions — though whether anyone will dance with them to these is questionable. In recent days, dancing safety experts have promoted "safer dancing" — dancing with people who know how to dance, leaders who respect your wishes, and above all, dancing with some form of protection. These latter, which range from the traditional steel toed boots to the modern, high tech, kevlar-stealth slipper are gaining popularity — in particular, innovations such as the ribbed Oxford shoe have attracted the self-conscious co-op student of today. Nevertheless, podiatrists and bouncers alike continue to stress that the only safe dance is a lap-dance — and certainly not a dance in which a hockey stick or chair, occupied or otherwise, rises above knee level.

For the daring dancer, however, and the couple who need that thrill of danger and control to enjoy a dance, there is now full-contact dancing. In this new, 'xtreme' and highly competitive sport, the object is to capsize as many opposing couples as possible. Similar to the "May-bumps" popular in Britain (a rowing race along a river only wide enough for one boat, which is run over several days, overtaking being effected by hitting the boat in front, whereupon you switch positions at the next start), points are awarded for every couple you can "eliminate" (with extreme prejudice) from the counter-clockwise scramble. The fewer the beats taken to do this, the better. Part marks awarded if you can set another couple out of step through a sudden spin and turn, or just by plain running into them. Couples who capsize of their own accord and crawl under a nearby table (presumably out of fear for their lives, really) are not counted towards your score.

Although such an enterprise does not lend itself easily to team play, recently enthusiasts have been applying themselves to the task. The current draft of the rules sees the opposing couples paired into thumpers, spinners, and finally one couple of seekers, whose job it is to find anything by Geri Halliwell, which when returned to the DJ booth, results in the immediate unconditional surrender of the opposing team, under threat of playing it.

Organisers plan to woo the IOC with podiatrist-approved lap dances in order to waltz past them the true violent nature of the sport (particularly in its overtime "Golden Heel" tango phase), to ensure Olympic acceptance by 2002. Hearing of these plans for a home-grown Olympic sport, following recent disappointments in a promising year, a UW coach was heard to mutter "not soon enough" as he four-stepped down the hall.

Surgery Failure

the operation timed out

Hooray for memory loss!!! Hooray for memory loss!!
Hooray for memory loss! Hooray for memory loss.
Hooray for memory loss ... Where am I?

Mathematics of ...

Nature

As a reminder, math can and is often applied to the real world. It can even be used to represent the things that we see in nature.

One of the prime examples of this is the Fibonacci sequence. Developed in 13th century by Leonardo da Pisa (most likely a relation to the builders of the Leaning Tower of Pisa, but I can't qualify that, as there isn't an official builder), the Fibonacci sequence has properties that appear in nature. For example, the internal spiral of the seeds in a sunflower, of the petals on many plants replicates the numbers generated by the formula:

$$f(0) = 0$$

$$f(1) = 1$$

$$f(n) = f(n-1) + f(n-2)$$

Take a look at some flowers (aka the bio building, or some professor's plants because there ain't nothing blooming outside and you might be able to count the 34, 55, or 89 petals or seeds that appear.

Another example of how math has been reflected in nature is through fractals. A fractal, for those of you who are yet to be enlightened, is essentially the replication of a object into a smaller object contained within the original one. eg. Take a triangle — put another smaller triangle (180° rotation) within it. Then for each triangle you see, put another smaller (180° rotation) triangle with that. Rinse, wash, repeat. Fractals can appear in such things as bacterial colonies (oh colourful!) and the branching of trees and leaves: each branch or leaf appears to be a smaller version of its original larger parent. And yes, fractals do get used in math through co-ordinate systems, counting, pattern recognition and development, and most particularly the concept of infinity — it's like the Energizer bunny, just keeps going and going and going and ...

Finally, there's the most visually appealing application of math within nature: the *kaboom* in nature, the AMath of nature: fun loving explosions. Honestly, how could an individual know as to how much gun powder (and other chemicals) should be added to a fire cracker or an experiment in volcanoes? Yeah, there could be the whole 'test' method, but despite being a lot more fun, it's a lot less math-oriented, which would make it inherently less fun.

I Wish I Weren't Able To Love

I loved him and he loved me
But we could never be together
I wish I weren't able to love
That way I wouldn't have to suffer

I love math but it doesn't love me
Because I'm a dumb mathie
I wish I weren't able to love
That way I could stop trying to make it happy

I love Life and Life loves me
Life is beautiful and so am I
That "I wish I weren't able to love" is totally a lie
I love to love, and yet, I don't want to die

The loving and love!

mathNEWSmailBAG

Hello Editor person,

I'm a 2B CS student, and I was interesting in submitting an article or two for Mathnews. I was just kinda curious how I would go about doing that and who I contact.

Thanks for your time,
Eric

Well, one easy way to send an article to mathNEWS is to email us: mathnews@student.math.uwaterloo.ca with the word 'article' in the subject and the article in the message body. If you format your article with html tags, it makes our job that much easier.

Another way is to come out to Production Night (Issue #2 Production Night is on Monday, January 27th) — this usually involves meeting at the MathSoc Office at 6:30 pm, writing stuff with our wonderful production team, then eating free pizza with us. (Yum!)

As always, the BLACK BOX between the C&D and the Comfy lounge is also a welcome recipient of ... well ... pretty much anything - money, articles, profQUOTES, condom ads, money, pretzels, etc.

KreasEd

To:MathNews M&C 3038

Ladies and Gentlemen

I am mechanical engineer. I made a tool that can draw ellipse like compass that can draw circle. I want to produce this new plan, but I have not enough money, and my country do not support me.

So, I want to know that do you like to buy concession of this new plan or associate with me to produce it, or can you guide me what am I doing.

I look forward to hearing from you soon.

Thank you very much.
Form:Mr, Mohamad Ali Salmani
Karaj, IRAN

So this tool will draw ovals? I could always use one of those, as long as it's not a string and two sticks, or a broken compass - I already have one of those. If anybody wants one of these tools, or wants to guide Mr. M.A.S., we will accept donations and correspondence, and forward them at the end of the term.

KreasEd

Clarification of First Year Course Rankings

Due to the fact that certain third year students have been inaccurately informing first year students about the level of difficulty of certain first year courses (a direct cause of old age), I felt it necessary to remind the third years, and clarify to the first years the level of difficulty of first year core courses (Ray, are you listening?):

In order of descending mark/time-spent ratio:

1. Math 135
2. Math 137
3. Math 138
4. Math 136

Proof:

1. Math 137 < Math 135 given by the fact that "Dear gawd it nearly killed me first term"

Letter to the Editors,

If your editor names are Krease and Waldo, when you're together are you Kraldo, or Wase. Or do you suddenly transform into a game where you have to find a very old (wrinkled) guy wearing bright striped red and white clothing. I mean really, if you were trying to hide, take off the damn barber pole-esque clothing. Strip... Strip... Strip.

So in conclusion, do you support the referendum?

Stuglo

Umm... yes? No, wait...you're an old wrinkled barber that likes to strip? I don't think we need a referendum to decide that one...

KreasEd

Dear Miss Manners,

I work in a medical office. We have pharmaceutical representatives who bring new drugs to us and occasionally bring lunch for everyone in the office. One of the doctors in my office eats the food directly out of the dish instead of putting his food on a plate, like civilized human beings. Do you have a rule of etiquette that I can supply our ill-mannered doctor?

Sincerely,
Raised with Manners

I think your doctor is in severe need of a spanking! Most may find this an outdated method for correcting behaviour, but I believe it is essential in raising a well rounded medical practitioner. Next time he insists on eating out of the dish and not his plate, pull him to the side of the room by his earlobe, lay him over your knee and firmly but gently tap his behind. If this fails to work, only serve dog food at the meetings till his coat is a nice rich colour. Or shove an elephant's trunk up his butt. Nothing makes some one stand up and take notice like a pachyderm up the rear.

Waldo

Have something to say? Send mathNEWS a letter! You can

- put it in the BLACK BOX between the C&D and the comfy lounge
- email it to mathnews@student.math.uwaterloo.ca
- snail-mail to: mathNEWS, MC3041, University of Waterloo, Waterloo, Ontario, Canada, N2L 3G1

2. Math 135 < Math 138 given by the fact that "Dear gawd it nearly killed me second term"

3. Math 138 < Math 137 given by the fact that it is Calc II and not Calc I (should be obvious — if not, then use the fact that there are Taylor polynomials in Calc II)

Therefore we see that,

Math 136 < Math 135 (Math 136 is harder than Math 135)

Second Year Student

(who is going to be killed by Math 239)

HorrorScopes

ACC

Arts accounting students will seek you out for help with Math 103. Offer to tutor in exchange for human interaction outside in the daylight. Wear sunscreen. Use "creative" accounting to figure out total tutorial fees, and claim that Enron pioneered the practice. Assume Arts students don't know about Enron.

SCI will bug you for tax advice. Swat them back with a large general ledger.

Your lucky number is Andersen Consulting.

ACTSCI

At the start of the new term crawl into the dark hole that is your study room. Avoid refreshments that expired in 1999. Instead, use dial-a-bottle because they deliver. Also avoid foods that are on the brink of achieving consciousness. If you find yourself interrogating foods for signs of intelligent life, seek professional help.

You are still in your hole. No interaction is possible. Wait a few weeks.

Your number is #000000.

AM

Identity crisis ensues after you try to describe what faculty you're from to your parents. Engineers, chem majors, and physics majors will mock your indecision. Mock them back with obscure Calc-4 proofs and a tuition statement containing 10% less tuition.

Your inability to use actual numbers in class will force you to interact with ACC. Integrate your relations.

Your lucky number is α .

BBA/BMath

You'll quickly find out that your Laurier counterparts can't handle their liquor. Set up shop at the bomber and abandon Wilfs. Don't forget, double the degree means double the drinks!

All signs point to ENG. They have a good bar there.

Your lucky number is .08.

C&O

Your obsession with pencil and paper may come to an end when your pencil breaks from extreme stress. Introducing rings to other people may bring about confusion as they compare it to the movie, *The Ring*. Explain to them the Japanese version of rings is much better than the UW version of rings.

PM may decide to be your classmate. Hit them over with a nerf bat.

Your lucky number is O.

CS

Just because the fact that you haven't found a girlfriend after 5 terms in CS doesn't mean you're a lost cause. Continue venturing into the Arts Lecture Hall pretending to be a Psych major. Don't mention CS at all. Resist describing your home system in great detail and concentrate your descriptions on your target.

Your last adventures in AHS was a complete failure. Avoid them at all costs, they can smell your fear.

Your lucky number is 2.6 Ghz (but don't tell them that.)

MATHBUS

Death marches to Laurier will prove more difficult in the snow. Survival is optimal at all costs. Flashing your WATCARDS to random people will either get you killed or get you picked up. Proceed at your own risk management.

You and BBA don't mix. It's like anti-matter and matter. BOOM.

Your lucky number is your watcard number.

OR

Your experience in your last work term with planning and craft movement will provide much use when you try to optimize your bar experience. Start with European beers, then manoeuvre towards North American then Asian brews. Maximize consumption efficiency while minimizing the chance of slamming the bomber toilet.

AM will wish to learn from your efficiency skills. Teach the young grasshoppers well.

Your lucky number is 20 beers.

PMATH

In the next two weeks, your life will be devoid of numbers. Trying to purchase goods and services using the greek alphabet and weird mathematical notation will get you kicked out of reputable retail shops. Instead, stay home and create a product that the world doesn't need numbers.

You will find much common ground with CS.

Your lucky number is number.

SOFTENG

Shock will ensue after finding out your Math classes are in DWE and your ENG classes are in MC. Confusion will ensue after shock. Douse confusion with a good CUP of JAVA, then C++ about getting that new UNIX laptop you always wanted. Organize a marathon running between buildings every day.

UNDECLARED will laugh at you for your indecision. Laugh back at them after you catch your breath.

Your lucky number is two gulps of air.

STAT

For amusement, attend STAT230 and watch CS squirm while trying to understand permutation rules. Bring popcorn.

CS will retaliate in numbers. Remind them that you can help them pass their course. Let them bring you food and massage your back. Milk them for all they've got.

Your lucky number is 5 CSers waiting on your beck and call.

ENG

Breaking into the laser lab and hatching a diabolical plan to take over the world with a "laser" and holding it hostage for one hundred gajillion dollars is in your future. Remember to point your laser away from your eyes, or you will be forever cast into the realm of Arts for a lifetime of psychology tests. On the up side, you get free beer at these tests.

OR will share your affinity with alcoholic products. Give them your cash and they will reward you. Remember: Money can be exchanged for goods and services.

Your lucky number is gajillion.

more HorrorScopes on next page ...

Student Survey Questions

Please Answer the Following 10 Questions in a Rational Manner, and Try Not To Leave Any Blank:

1. What is a word that rhymes with moose?
2. How many whiskers are on the average tooth brush?
3. If Godzilla had successfully destroy New York, who would look after its grandchildren?
4. What is the air speed velocity of ... a Canadian goose? (in rad/s, assuming that the goose is going in a circular path around planet earth)
5. If black is defined as being the complete lack of colours (where white is the combination of all colours), then how many calories are in a black licorice?
6. How many seconds pass in a working day, wherein a working day is from 8:00 am to 4:00 pm (with a break between 12:00 pm and 1:00 pm)? What is that mod 60? What is that mod 3600?
7. What's worse than finding bubble gum on your chair?
8. What's so unique about the 3452nd frame of the movie "Mary Poppins"?
9. You've created a bubble sorting algorithm, and have placed the names of a telephone book in reverse chronological order. How long will it take you to find the second to last name?
10. In 5 words or less, how would you describe the Canadian Rockies with respect to the Maritime terrain and the salmon of the Black Sea?
11. How many letters in a digit?

Please turn the page to see the answers and see how you fared.

... more HorrorScopes (from previous page)

UNDECLARED

Tuition bills came in. You pay the least. Congratulations. Fail to call MUO on choosing major. Time is running out. Run with time.

All other signs will vie for your interaction. Ignore and continue going to CS classes.

Your number is ?.

ARTS

Try to explain the Boar to CS students. They will confuse it with the Borg. Go into a long discussion on the ethics of assimilating other cultures to serve their own. You will walk away thinking that your mascot assimilates other cultures and switch out of ARTS in disgust.

No other faculties would take you, go back to ARTS. Do not pass go.

Your lucky number is Stardate 44328.1

Welcome to a new term!

For some of you, this is the end of first year, others, the start of second year. Well let's just say that I do know people that are somewhere in limbo between years (and I happen to be one of them ... damn calc II ...)

Well, I'm not gonna gripe too much about it, ah, what the heck, that's what *mathNEWS* is for! Here's a brief example of what 1N is: You've passed more than 4 classes, but less than 10. This means you've either been lazy (guilty as charged) or you just didn't care. Caring is good. Caring is your friend. It is not fun to check grades and find a sub-50 mark beside any course. The one highlight I did get was non-academic probation (yay me ... that means I can still have crappy grades this term and still have 2 more co-op terms ... wait, I've already had two ... and done work term reports for those ... Argh!

Another beef ... work term reports... what purpose could those possibly serve besides annoying the living daylight out of us non-linguistically inclined Mathies (ok, some are better than others, but I don't consider myself to be all that great when it comes to grammar ... spelling sure, but forget grammar) ...

Where was I? Oh yeah! How is MUO still gonna get their 4 work term reports from me (cuz I've already got a job for work term #3 (in your face!), and if I go on academic probation, I still get to do work term #4 without consequences, which means that if I want to graduate with co-op distinction (as if employers ever check this ... note this: experience is what's important ... not friggin co-op ...) then I have to write 4 work term reports on my first 4 co-op terms. Well ain't life grand). *[Actually, not only do you have to complete four work reports, but you also need to complete five work terms. — KreasEd]*

Ok, well now it's time to end the rant and get back to something that really matters: assignments. That and the fact that I should be somewhere working on one that's due this week (considering that it's Monday night and I still have plenty of work to do for three friggin assignments. Oh well, as is frequently said in the Math faculty, sleep is for the weak! On any note, regardless if you're starting your second term, or any subsequent term, I wish you all the best luck, unless if you're in my course!

Mark

SCI

Current experients to meld SCI with STAT will bring about incredible discoveries. A new element called "permanent boredom" will be found, and an anti-element called "pirate" will be found along with it. Finding a direct correlation between pirate and permanent bordem will bring about insanity.

BBA/BMath may try to steal equipment from your labs. Retaliate with distilled water.

Your lucky number is H₂O.

AHS

Take a cue from Martha Stewart (the unindicted one) and set up a dinner party for you and 1000 of your closest Math friends. Advertise the abundance of available AHS females present, and charge a large cover fee. Quickly realize this is a way to print money.

All signs of Math are awaiting your event.

Your lucky number is \$19.95

Student Survey Answers

- Most Common: Goose
Real Answer: Loose, Juice, Spruce, Bruce (g'day), ... If you got anything that wasn't "goose" congratulations on being original.
- If you counted them, you should really consider taking a Stat Major, if not a stats minor, or at least look into a co-op job at Stats Canada.
- Most Common: Who, what, huh?
Real Answer (as by me):


```
if (child.hasParent() &&
    child.getParent().looksAfterChild(child)) {
    return child.getParent();
}
elseif child.hasSomeoneToLookAfterIt() {
    return child.getSomeoneToLookAfterIt();
}
elseif child.looksAfterSelf() {
    return child;
}
else {
    throw new PinkTieException;
}
//always leave the hard answers to java code
```
- Common Answer: Laden or unladen? (punk kid)
Real Answer: Laden or unladen? (I mean really! What else could it be)
- Answer: Take the number of grams of sugar in it, then the number of hours that you aren't exercising. Multiple the two, and times by 1000. Should get you the number of grams of fat (as stated by many a health nut)
- Answer to part A: 25 200 (I hate co-op) (? 17 days of work left means 428 400 s of work left this term)

Answer to part B: 0 (For those of you who have forgotten Classical Algebra, hours are in increments of 60 minutes and minutes are in increments of 60 seconds, hence 200 divides by 60 to give an integer, and thus a remainder of 0)

Answer to part C: See above (if you didn't get this right either you're not in math, or it's been way too long since you took Classical Algebra (and may be a bitter upper year student) : go find a first year and save yourself!)

- Common Answer: Finding gum in your hair
Alternative Answer: Um, there are MANY things worse than finding gum on your chair. And good job if you thought anything that wasn't gum or chair related. Things that fall into the category are having birds learning to fly land on you, tripping over a platypus, and missing class.
- Answer: If you know the actual answer to this, then you should possibly look into finding a nice white padded room with a nice white jacket.
- Answer: It's the second last name! If you know this, and have stored it in an array (for base look up values), then you'll have it take $O(1)$ (for those of you with CS 134 background), or essentially one call: `return array[array.size - 2]`
- Answer: Please mail the response to `you_know_who_1@hotmail.com`.
- Answer: You shouldn't've have answered this question (if the title was to answer only the first 10 questions). However, if you're looking at 'a digit', then you've got 6 letters or 5 unique letters.

Have a good day!

b0r3d@wurk.com

Stupor Heroes Unite

Some Unlikely Super Heros ...

- Toast Man:** Defender of toast everywhere, ending the persecution of regular bread. Can often be found smothered by PB&J, the lucky girl.
- Bubble-Wrap Boy:** As a teenager, he was tormented by his classmates for being addicted to popping bubble wrap. Since then, he's matured in to Bubble-Wrap Boy, striving to save the world from the harms afflicting bubble wrap — the deterioration of plastic from melting, and the moulding of bubble wrap everywhere.
- Syphon:** Has a hole in each hand which can be used to transport things from one to the other. Is not to be confused with the Colander Caper
- The Living Nap:** Fall asleep faster than a speeding bullet. Snores louder than a locomotive. It's the Living Nap!
- Sunshine Girl:** In the dark recesses of a radioactive lab Sunshine Girl was born. Producing more energy than nuclear reactor, Sunshine Girl is able to promote renewable resource energy sources, while at the same time vapourizing anyone that stands in her way
- Marshmellower:** Recieved the nickname after destroying an entire plague of depressed Dole-Drumms with marshmallows. Defender of energy-wasters everywhere: can often be found at bbq's with Sunshine Girl.

These stupor heroes, and thousands of others were rejected by Marvel comics, and have now come back to seek their revenge. In a recent poll of stupor heroes, 5 in 4 heroes were found to despise Spiderman and X-Men. Reports claim that in the next sequels, these heroes will be making special guest appearances, reeking havoc on the otherwise ideal Marvel world. Look for them in Spring 2003.

Man pages for Unix commands that shouldn't exist

```

User Commands                                xcock(1)
NAME
  xcock - misinterprets the last statement to be
           a sexual innuendo
SYNOPSIS
  xcock [ -bris depth ] [ -viagra dosage ]
        [ -help ]
DESCRIPTION
  xcock takes the last statement that the user has
  entered and horribly mutilates its intention,
  resulting in humour that can best be appreciated
  by a four year old male chimpanzee.
OPTIONS
  -bris depth
    The bris option sets the amount of excess
    window to cut off. Note that using this
    command will cause every female to try to
    get a better view while simultaneously
    every male will turn away.
  -viagra dosage
    Viagra is used when looking for xcock to
    last longer than is probably healthy. Note
    that using this command will enhance the
    likelihood of satisfying others.
**WARNING**
  xcock may appear to be offensive, however this
  is simply due to a user not understanding the
  concept of humour.
SEE ALSO
  xGirlfriend(1)
AUTHOR
  Unix Anti-Guru
COPYRIGHT
  Copyright (c) 2003-69 by Unix Anti-Guru and Moon
  Exposure Systems, Inc.
  Permission to use, copy, modify, and distri-
  bute this software and its documentation for any
  purpose and without fee is hereby granted, pro-
  vided that the above copyright notice appear in
  all copies and that both that copyright notice
  and this permission notice appear in supporting
  documentation.

```

MoonOS 6.9 Last change: 13 January 2003 5

Mexican Jumping Death Spiders

The mexican jumping death spider is a very peculiar kind of spider indeed. The name is misleading, as this spider is native to the Waterloo region. The rest of its name comes from the fact that as a direct result of the spider jumping, it dies.

The mexican jumping death spider will only die if it intends to jump, and makes it to the apex of that jump. If you were to attach some metal to this spider and place an electromagnet nearby such that the spider moves as if it were jumping, it would not die. Also, if you were to somehow force its legs to go through the motions of jumping, it would not die. Again, if there was a wall directly in front of the maximum height the spider would reach in its jump, it would not die. The mexican jumping death spider will only die from jumping if it consciously makes the decision to jump and succeeds in doing so. The spider will jump, and when it reaches the peak of the jump, it dies. Mexican jumping death spiders always land on their back. Mexican jumping death spiders do know that they will die when they jump, it is when they are startled that they jump to hide, then they die. It is not possible to kill a mexican jumping death spider in any way other than making it want to jump.

It would seem that there would not be very many of these spiders in the region, but the jumping actually increases their numbers. In the same way that the mexican jumping death spider dies as a result of jumping, a male spider of this species must jump to mate. After some time, the female will have a huge urge to jump. She will jump, die and hundreds of baby mexican jumping death spiders will emerge. Only a few of these spiders actually survive, because most of them try to jump away. If the female did not give birth in this fashion, she would not be able to have as many children.

Please note that since the only way to kill a mexican jumping death spider is to make it jump successfully, they can effectively be grant temporary immortality by amputating their legs. However since it is a spider, the legs will grow back over time.

A common misconception about the mexican jumping death spider is that since they must jump to die, they do not need to eat/sleep/brush their teeth. This is not true. If a spider of this species neglects to get sufficient nourishment/rest/oral hygiene, it shall be overcome with the urge to jump; and it shall die.

Mexican jumping death spiders are incredibly good jumpers. They can cover large distances in a single bound; they will simply not live to see their great feat. As a point of interest, a Mexican jumping death spider thrown into a fire will usually jump. Intelligence in a mexican jumping death spider consists purely of a commitment to NOT JUMPING.

The Mexican jumping death spider is a rare sight to see in Waterloo, and chances are if you see one, it will die trying to hide from you. Please, for the sake of the species, do not look for them; they are an endangered species.

*squirrel*KING and his *nutty*MINION: Alien Angel.
 dwhelton@student.math.uwaterloo.ca (/~dwhelton)
 and alienangel.deviantart.com, respectively.

Issue #2 Production Night is January 27th at 6:30 pm
 Help create *mathNEWS*' 30th anniversary issue!

profQUOTES

"I should stop bashing Microsoft, because there are so many other bad programs out there."

Beidl, CS 134

"I didn't stroke it enough. I need to stroke it every so often to keep it excited."

Berry, CS 445

[To student] "You — you're now the official class stroker."

Berry, CS 445

"This is the boringest part of the lecture, so if you see me falling asleep, someone slap me."

Berry, CS 445

"You may find tomato sauce on your exams. That's because we have pizza parties while marking them. Don't worry, it's not blood."

Berry, CS 445

"This is the meat of the SRS, and if you are a vegetarian, this is the beans of the SRS."

Berry, CS 445

"If you haven't seen Tron, consider yourself lucky."

Berry, CS 445

"When you divorce, your inlaws become outlaws."

Berry, CS 445

"Does anyone not have an exam? Does anyone not WANT an exam?"

Crippin, MATH 235

"If we have time, and if you guys aren't bored shitless, we'll do some more problems."

D'Alessio, MATH 115

"Sorry, I'm on drugs today. Hey, I'm allowed to be on drugs too, right, not just you guys?"

D'Alessio, MATH 115

"I'm wasting time because ... well I feel like it today."

Fog, AM 250

"I'm so nice to you people. You might as well throw me money right now."

Hayes, HIST 106

Top ten things not to do when living off campus

1. Eat peanut butter sandwiches for more than two weeks straight; one week okay, two no.
2. Live on your own.
3. Become a cannibal.
4. Not showering.
5. Live on your own and become a cannibal.
6. Die.
7. Diet.
8. .sdrawkcab sgniht daeR
9. Invest in Nortel.
10. Go watch an Adam Sandler movie.

ATF

"Give three points of identification, three points of significance and your toast. No, wait, you're good."

Hayes, HIST 106

"I have a service to provide. When the guys come to me, I serve them."

Liu, CS 35

"I have a well known socket with a well known name."

Liu, CS 35

"If my socket is used by one guy, I still want it to be available to other guys."

Liu, CS 35

"You are probably fed up with my babbling."

Liu, CS 35

... and this typo is correct."

Liu, CS 35

"About 40 years ago, they decided... I don't know who 'they' were, but I think the French were involved."

Mann, CS 48

"That's the programmer's problem. Nobody cares about the programmers."

Mann, CS 48

"I'm sorry, ladies and gentlemen; we're finishing this course. Come hell or heart attack."

Smith, ECON 10

"Mr. Disney is getting deader and deader."

Smith, ECON 10

"They see the smell of profit."

Smith, ECON 10

"Big books are hard to steal."

Smith, ECON 10

"You'd have to be quite desperate to go to Guelph."

Smith, ECON 10

Submit your *profQUOTES* the BLACK BOX today! You can also email them to mathnews@student.math.uwaterloo.ca.

Top Ten Things That I Would Do If I Was A Snowflake

10. Be cool.
9. Make a people-flake.
8. Fly up someone's nose.
7. Complain that I can't find anyone like me.
6. Land on a hot girls tongue.
5. I would feel six people at once.
4. Pretend to be fire.
3. Get together with a bunch of my friends and make a snowball.
2. Sparkle.
1. Melt.

Dave

Screamer's Believe It or Not

I don't like to get political in this column, but something that happened last week really made me laugh. I don't know where it is written, but I'm now very sure that there is an article in the B.C. Constitution that states that the Premiers of the province have to run into trouble while in office. How else can you explain the records of the recent Premiers?

What? What is it? Oh right! You are not here to read these ramblings. Very well then, I now give you what you want to read.

Phone on the Run

Mobile phones have become a necessity for many people today. No matter where you go you can see someone holding a phone. Compared to what mobile phones were like in the 80's, the ones we have now are very compact. Of course, with every trend, there are people who go against the flow. The following might be the biggest mobile phone you'll ever see. A man was arrested in North Vancouver (BC, of course) for stealing a truck. After examining the contents in the back of the truck, the police realized that the truck was not the only thing that was stolen. The other thing turned out to be a phone booth. It shows that there is still hope for us all. After all, it seems that most criminals don't think very carefully before committing their crimes.

A Ride to Remember

Many children are fascinated by trains. There are a large number of people who dream of building a sophisticated train network in their youth and some spend a large fortune to live that dream. Very often, kids act very enthusiastically whenever they get to ride a train. It seems that many adults still have that feeling. The first phase of the New Dehli subway opened recently and people rode in it in droves. Many curious riders rode for hours aimlessly. The supply of tokens that act as passes ran out because the riders took them as souvenirs. Also, the emergency intercom had to be disconnected because the riders continuously used it to ask the driver to drive faster. One may ridicule the people for being simple-minded, but in these days where everything is so hectic, it is good to let your inner child out sometimes. (Note: The author of this column does not condone any non-emergency use of emergency intercom or theft of train tokens.)

Everything I Learned on Co-op

1. Tech Support sucks
2. Help Desk sucks
3. Not being able to telnet (or SSH) out of the proxy server to talk to friends to appear 'busy' sucks
4. Waking up at 6:00 to get to work for 8:00 sucks
5. Friends help the work term go by so much faster when you have constant ICQ or e-mail conversations that last the entire day — the best thing about co-op

Thanks to everyone who helped the past 4 months go by so quickly.

My advice to all of you on co-op now is to find a few friends to e-mail or instant message while working to appear busy during all those down times.

See you all in four months,
Mua ha ha ha ...

Next Item: My Home Town

It appears that many small towns are resorting to unusual means to garner the media's (and my) attention. You have read about towns fighting for the right to be a ghost town and organizations urging towns to change names. I thought I have seen it all. Once again, I was wrong. The town of Bridgeville, California (why do all of the weird ideas originate from there?) was put on auction at eBay. The bid started modest enough — \$5000 US. Then bids began to pour in as Christmas approached. When the gavel was pounded, it was priced at \$1.78 million US. The lot included a few buildings and a tractor, but not the bridge or the school. There also was no mention of the reactions of the 670 or so residents of the town. It might be fun to own a town, but one's enjoyment might be very limited. After all, there's only has a tractor to play with, and there is no power to wield at all. It just shows that one's IQ and wealth are not correlated at all.

"Not my Fault! E.T. made me do it"

There are many bad drivers on the road (any of you who drive can attest to that). Very often when people drive recklessly, they make up funny (and often hard to believe) excuses. Rarely does the blame go to some extra-terrestrial. Recently a French man drove through a police road block on a French highway and set off a police chase. The chase ended when the man who ran the road block crashed his car. When he got off the car, he claimed that he ran the road block because he was being chased by Martians. He passed the breathalyzer test, but hasn't been tested for drugs or psychiatric problems yet. A person's imagination is a very powerful tool and many great advances are probably made as a result of people's imagination. However, one should not blame their wrongdoings on the "voices" in their heads.

Jason "the Screamer" Lau
Am I wasting my life by writing this column?

Proposition

That each Calculus class contains at least one smelly person.

Proof: Consider a random calculus class consisting of n persons. Now each person has, by definition, an orderific factor. (This factor is defined as a quantifiable reflection of that person's smelliness. A higher number represents an increased likelihood of that persons smell to disperse in the air.) Rank the persons in that class by their orderific factor, where person 1 is the person with the lowest orderific factor to n , the person with the highest orderific factor.

Now consider person n of that calculus class. Since this person has the highest orderific factor, that person is therefore the smelliest person in the person, or simply smelly. Hence this person can be considered a smelly person. It follows that since this person is a member of a calculus class, then that class contains a smelly person. Also, it follows that each class would have a person n , representing the person in that class with the highest orderific factor. Therefore, each calculus class contains at least one smelly person. Q.E.D.

Sir John of Flag

The Truth and Nothing But

One of a Kind

The ongoing controversy between students and the City of Waterloo has taken a major twist, *The Truth* can exclusively reveal. Following the uproar over lodging restrictions limiting student housing to one per 70 odd metres, the City is now prepared to let the local religious institutions fall into its grasp as well. Anonymous sources have told me that the Mayor is pushing a bill which would prevent no more than 25% of the occupants of any church or temple from being of the same faith. This would leave open the possibility of people from different religions attending prayers or other services at the same building, and in all likelihood, could lead to substantial chaos.

Supporters of the proposition though, have it all planned out. "We were accused by the local students union of maintaining double-standards by allowing certain institutions to function freely without any sort of quota on the make up of its members, and we feel that by imposing our scheme on the churches, everything shall be in perfect order. We also feel that the students should use this move as an example of how to act in harmony in negotiations. When they came up to us and said, 'why don't you, like, put a restriction on the church or something, just like you have with us?', we thought, 'hey, that's a good idea.' So we took the plan to heart and it has been implemented. They should now follow our lead, and carry out our demand that they shut up and stop frikin' complaining. Hello, most of you don't even live here."

The Truth doesn't have a prayer.

Engineering Side Story

In an attempt to boost its flagging reputation in the inner-cities of major US markets like New York and Los Angeles, the International Society of TOtally Professional Engineers (ISO-TOPE) has applied to the World Science Commission to let engineering be declared a science.

Alarmed by declining entrance rates, and even lower graduation numbers, ISOTOPE believe that this is the only way their profession can be rescued from abyss. "Being classified as a science will automatically raise our reputation," reckons ISO-TOPE spokesperson Iris Pope. "When people say 'so what you're an Engineer? It's not rocket science.' at least we'll be able to tell them that it is a science nonetheless."

"But our major reason for this application is to encourage the 'homies' who live in the 'projects' to aspire to become engineers. Until now, all they've wanted to be affiliated with is 'East Side' (pronounced Eeeeeea'Sigh), 'West Side' (Wess'Sigh), 'South Side' (Sou'Sigh), Com'Sigh, Poli'Sigh, Act'Sigh, or in extreme cases, AccountanCY (Accountan'Sigh). Now we'll give them something different, something new, we'll give their lives an Engineering'Sigh."

On the flip'Sigh, *The Truth* thinks the lack of 'science' in its title might not be why the 'homies' don't want to become engineers to start with. Maybe they just like to chill in the hood, play some 'ball, smoke some weed, and then go heat up things in the crib.

Then again, that's just a thought.

Mac Bytes Back

Hamilton-based McMaster University have pulled an amazing coup to rival UW's partnership with Microsoft, after announcing that they have entered into a multi-year Strategic Exchange pact (SEX) with American computer giants Apple Computers. McMaster, who will change their name to McMacintosh for the duration of this contract (thus keeping their nickname intact), have long been seeking to challenge Waterloo's untested superiority in the Canadian computer industry. However, although certain observers reckon that indulging in SEX with a major player in the North American market will go a long way to accomplishing Mac's goal; others are quick to caution that graduates of this program may well find themselves incompatible with the rest of the workforce.

In fact, this month's issue of *Playman* (the mag for the moment) raises another concern the University might have overlooked. Writing in the year-end bumper issue, *Playman* Arnie Bootlegger says: "They may find it's a little too early for SEX, given all the unreliability technical systems are prone to. If I were Mac, I'd probably make sure that these highly intricate machines won't be going down on me every 5 to 10 minutes before I made any sort of commitment."

The Truth reserves judgement before the fruits of this deal become apparent.

Shereza

So You've Decided to Strike Your Fees

Well, here we are back in another term, and again we have more stuff to write about. w00t! The idea behind this week's theme is the recent proposal to add a feature on Quest to allow students to click checkboxes for fees they wish not to pay with the rest of their tuition.

Regardless of the questionability of this proposal, I have decided to offer some helpful tips as to what you can do with the five minutes of your time you will save by striking the fees online.

- Read *mathNEWS*
- Eat lunch between class
- Write notes ... yanno ... **before** you fall asleep
- Spectate a five minute game of colours and countries
- Participate in a 5 minute game of colours and countries
- Write a letter to person/institution x complaining about not being able to strike/pay a fee relating to x
- Play rock, paper, scissors with yourself
- Write a *mathNEWS* article
- Continue to accumulate multiple sets of five minutes separately declining to pay your fees in order to bank them and use them up later while trying to write a php/perl based website that takes forever regularly 'cause you're too lazy most of the time

Purple Monkey Dinosaur Snackies - now Tuna Free!

mathNEWSquiz #1

Well another term has begun and that means more mathNEWS! Yeah! It also means more Squiz!!! Now as your SquizMaster I have spent countless hours trying to come up with a decent Squiz. So if you don't like it ... you come up with ideas. Feel free to e-mail me at damceach@uwaterloo.ca with suggestions and ideas for upcoming Squizzes and I will try to incorporate them, it makes my job easier.

Now, on with the Squiz. Points are awarded two points for each song lyric (1 point for the artist and 1 point for the title) one point for each trivia question. Ties will be broken by random draw. The winner will receive a lovely gift certificate to the C+D. Submit your answers to the **BLACK BOX** or email them to mathnews@student.math.uwaterloo.ca.

Lyrics

1. She say it's cold outside and she hands me my raincoat
She's always worried about things like that
She says it's all gonna end and it might as well be my fault
And she only sleeps when it's raining
2. I can tell she never seen Murphy Lee before
cuz shes just standin there as if I'm shootin free throws
I said excuse me miss I only wanna buy shoes
she said I love u Murph especially in the white in blue
3. I can't stand to fly
I'm not that naive
Men weren't meant to ride
With clouds between their knees
4. Look, if you had one shot, one opportunity
To seize everything you ever wanted-One moment
Would you capture it or just let it slip?
5. Throw away this very old shoelace
that tripped you again
try and shrug it off
it's only skin now

Leafs by the Numbers

(name the player who wears this number):

1. 12
2. 23
3. 26
4. 55
5. 22

Hockey Trivia:

1. Who is the first female to get a point in a profession men's league?
2. Who was the Inuit player on the Canadian Junior team and what was his number?
3. Which Maple Leaf was tied for the scoring lead at the 2002/2003 World Junior Championship.
4. Who was the General Manager for the 2002 Olympic Men's Gold Medal team?
5. Name the only country to have had a female coaching their olympic women's hockey team?

Movie Quotes

1. Dude, you have a bazooka. Stop thinking Prague Police and start thinking Playstation.
2. No, no, he didn't slam into you, he didn't bump you, he didn't nudge you ... he RUBBED you. And rubbin, son, is racin'.
3. A water break? Water is for cowards. Water makes you weak. Water is for washing blood off that uniform and you don't get no blood on my uniform, boy you must be outside you mind!
4. You do too much - college, a job, all this time with me ... You're not Superman, you know!
5. Believe in the ball and throw yourself!

Daryl McEachern

mastHEAD

The subtitle that never was

Here's a bit of advice: if you ever edit *mathNEWS*, try to make sure it's not in the same term you're Orientation Director and taking OS. Most people know this. Even I know this. I think the thin air in Banff must have affected me more than I realize. Of course this advice only applies if you feel like sleeping. It's only been a week and a day back to school as I write this, but it feels like it's been at least two weeks and two days.

I super fun happy news [*Yes, yes you are . . . — KreasEd*]: we have a new editor! The one and only Krease [*Hey, that's me! — KreasEd*] has risen above the teeming masses to join the ranks of Editor par Excellence!

In more interesting news to you teeming masses, we had a *mathNEWS* production night (which is probably obvious since you're reading this *mathNEWS*). As is the case at these shindigs, we had a *mastHEAD* question. This time around we posed the question: "Where would you and Snuggles run away to?" to which we received these exciting answers: Dave (Cuba, with our \$13 000 election budget.), Emerald (Soo's house, of course.), Tersigni (To the kitchen.), Andrew (I need a figurehead to tale over the world ...), \$.00 (Home ... or C&O class ... if only I could drag him. Sigh. Or, on second thought, a candy shop, riding on a giant slinky.), Ian (Boxing ring: "Who's the hunkiest of them all?"), Lamo (Another 6 hour FedS meeting, but I wouldn't actually be there.), Simon L'Avier (To the past.), Albert (Depends, where can I find a goat?), Nicole (Nowhere, who the heck is Snuggles?), Mark (The sixth floor ... we'd never be found ;)), Jason (The Hair Club — I want his beard), e (My laundry machine ... oops ... wrong Snuggles ...), Diana (His bed, where I'd ... tickle him :)), and Snuggles (To Nicole's house to introduce us. Then we'd go show Diana that four heads are better than two.).

And it wouldn't be a *mastHEAD* without some thanks to the ladies in Graphics who make this all happen and to Campus Pizza for all the food. Even if they don't have spinach anymore.

Krease (My cloning factory where he will be crossed with a hummingbird, a donkey, and a unicorn.)
Louis (To Snuggletopia so I could set him free to roam with all the other Snuggleses.)

