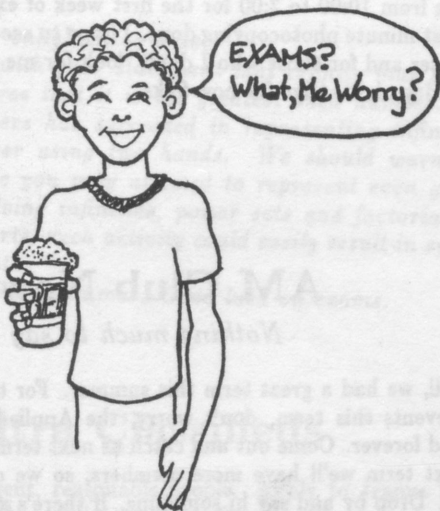


math NEWS

Volume 50 Number 5

Friday, July 28, 1989

U(W) Psychologists Discover the Four Definitive Exam Studying Categories



Type 1: Avoidance Complex (can lead to failure)

Type 3: Mild Stress Reaction (can lead to failure)



Type 2: Normal Study Pattern (can lead to failure)

Type 4: Total Nervous Breakdown (can lead to failure)



Which one do you fall into?

Try our quiz inside.

Look Ahead

August 1-12 Doom and Gloom

90 Grads!

End of term is finally here! Only 4 more months of school after exams. That's all! You may not realise it, but our time here is almost over.

The Grad Committee hopes that you have enjoyed this term. We'll be planning fun events for your last term as well. If you have any suggestions, let me know.

Coming up in the Winter term, we've got the good old pizza days, some 4B parties to get to know the other stream, maybe a road trip &, of course, the MGB.

I'd like to thank all the people who helped out over the term. Your time, effort and enthusiasm help to make graduation activities a success.

Good luck on your work term; save lots of money, don't forget to get your grad interview forms completed & take lots of pictures for our yearbook over the term.

Have a good term & see ya in the winter,

Kelly

A FLASH of Insight

Well, this time *is* end-of-term at the CSC. We hope the summer was fruitful, and that you pass everything in the next two weeks. Also note that the membership list for next term has already been started, so you can sign up early. Fortunately, the membership fees will be going down to two bucks next term, due to cash flow constraints (in 2 variables), and small toroid objects with sugar coatings.

The last meeting of the term was relatively successful. The topic of discussion was computer security, and the meeting was well-attended. Fortunately, no-one was injured during the incident.

If you have a key to the CSC office, please remember to give it to one of the exec members before you leave to make heaps of money on the work-term to pay the government and the University. If you do not, be warned that the keys contains small thermonuclear devices. You may not wander more than 100km away from the University, otherwise, poof, there goes the neighbourhood.

And finally, one last word: Have you ever wondered where all the bits in /dev/null go? Well, two researchers at the Institute of Advanced Studies in Meteorology in California think they have come up with a solution. It seems they were testing clouds for electrical buildup, when they noticed certain clouds kept spewing coherent bursts at them. On closer inspection, it seems the bursts are left overs from computer bit buckets. Also found in the clouds were single socks and underwear elastics that seems to come from lost people's dryers. *(boing sound here)*

Calum

mathNEWS Subscriptions— fall 1989
(\$7.00 in Canada, \$9.00 to USA, \$12.00 overseas)

available In the MathSoc office

Prez Sez

Whew! We did it. We made it through the busiest summer term ever (at least as far as I can tell) and it all came together pretty well. At times frustrating, at times bags of fun, this term is one I will remember for a long time. I would like to take this opportunity to personally thank all those who did more than what was required of them this summer. These people (A.D.M., D.H., and B.H.) worked their asses off all term long to make sure that you had a good time and that I didn't go completely off my rocker.

I won't say anything more about my term as President because Steve would probably edit most of the good stuff out anyway. Good luck on your exams and have a great holiday afterwards. The Office should be open from 10:00 to 2:00 for the first week of exams so you can get some last minute photocopying done. I hope to see most of you back in the winter and for those who I don't, look for me at the Shelter some Wednesday night. 'Bye for now folks.

Tom Vandeloo

AM Club News

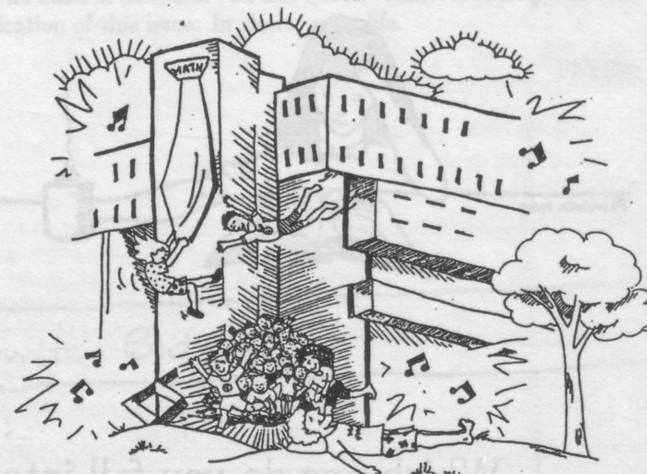
Nothing much to say

Well, we had a great term this summer. For those who missed our four events this term, don't worry, the Applied Math Club will be around forever. Come out and catch us next term.

Next term we'll have more members, so we can set regular office hours. Drop by and say hi sometime. If there's anything you'd like to see in the way of talks topics, or new services from the AM Club, let us know. We're *your* club!

Good luck on your exams.

Party on dudes!



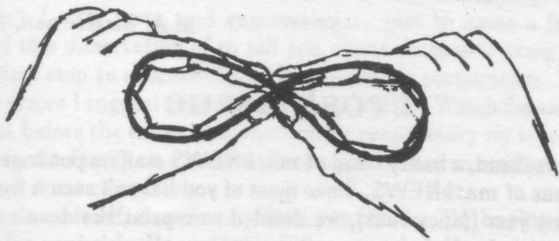
Letter to the Editor

Dear mathNEWS:

With respect to your Column of the Week in last week's issue (Volume 50, No. 4, Friday, July 14, 1989), it was stated that you could represent the numbers 0 to $2^{**}10-1$ on your fingers. It has come to our knowledge that you can represent ∞ with only 4 fingers as can be shown below.

Therefore, the greatest number which can be represented is $+\infty$.

B.F. & A.F.



Dear B.F. & A.F.,

Thanks for your enlightening letter.

While we agree with your statement that infinity may be represented, we disagree that it is the greatest such number. One of our staff members has succeeded in representing infinity to the infinitieth power using two hands. We should warn you, however, that while you may attempt to represent even greater monstrosities involving infinities, power sets and factorials using various body parts, such activity could easily result in serious injury, perhaps death.

Hope you had a nice summer. Good luck on exams.

ED

Ultra Classifieds

Wanted: 296 intelligent, reasonable people. Apply to Jeanne Sauve. Will trade equal number of clowns and buffoons.

Wanted: Silent P's to make more Pencil's. Please send to PSYDA.

Hiya Kook. Remember August 19th. Love ya Babe.

The Black Rose

'Doug, Dave, Roger, Paul, I want you all now!'

PC

Wanted: Male GridMaster for upcoming fall. Must be sexist.

Wanted: Female GridMistress for upcoming fall. Must be sexy.

Sorry Paula—had to put it in.

Doug

For Sale: 300 legless ducks going cheap. Have served their purpose in scientific experimentation. Cafeterias only need apply.

Bi-monthly meeting for MATOBLAFE (Men Are TO BLAME For Everything) tonight (9:00 p.m.) in the dark alley behind the Coronet.

Bi-monthly meeting for MACWAR (MALE Chauvinists With Assault Rifles) tonight (9:00 p.m.) in the dark alley behind the Coronet.

The next taping of the Geraldo Rivera Show will take place tonight (9:00 p.m.) in the dark alley behind the Coronet.

Vapid Fire

—Police are still looking for leads on the colour-blind vandals who defaced the East Campus Hall. The original theory was that the deed was committed by the colour crazed gang responsible for the current paint job in the Davis has been debunked by leading art psychologists.

Says Dr. Vincent PlayDoah of U(W)'s psychology department, "The Davis Center paint job is clearly the result of a violently sadistic psychotics expressing rage, whereas the East Campus Hall incident is the result of subdued neurotics expressing angst."

Police aren't taking any chances, however, and based on the locations of the incidents, predict that the Philip St. townhouses will be hit next by the paint vandals. Hearing this, several students living in the townhouses have taken to leaving their doors open at night.

Says Drew Smith of unit #42, "The landlords probably won't paint this place for years. Maybe the vandals will do it for free, eh."

—(IW PRESS) Impressed by the success of U(W)'s favourite campus newspaper, mathNEWS!, the New York Times yesterday announced that it is changing format. As of next week, the New York Times will be published bi-weekly on 8½ by 11 sheets of paper stapled together in the upper left-hand corner, and distributed free to nice people.

Analysts predict an increase in sales from the move. However, they are at a loss to see any way the venture can be profitable.

—U(W) has been faced with with the increasing cost of water provided by the city. In order to offset these costs, the administration has been considering several options. Adding a flat rate water use fee to tuition would be preferred by the administration, but they are already running out of valuable space on student fee statements to add new fees.

Another option would be the installation of pay-fountains and toilets in all the buildings on campus. In that way, students could be charged a 'campus renovation' fee as well as paying for the use of these facilities directly.

New Courses for Fall '90

The university registrar today announced the results of a combined effort between the Pure Math and Political Science Departments of the University of Waterloo. Beginning in the Fall '90 term the Pure Math Department will be offering a new course

- **BOOlean Political Science (BOOPS) 101**- An Introduction to Political Algebra.

This course will combine an in depth study of the mathematics of politics with the intricacies of modern thought and doublespeak.

Preliminary outlines indicate that the course will focus on the 3 states of Political Algebra, namely:

1 = NQT "Not Quite TRUE"

-1 = SF "Sorta FALSE"

0 = FC "Forming a Committee"

Specifics include such operations as:

~ NQT = SF

~ SF = NQT

NQT&SF = FC

Other Functions/Operators include:

Opposition(X) — Produces random output.

Press(X) — same as the negate (~) operator.

Homework for this course will involve extensive analysis of MP's output functions to responsive variables, we have been informed that this is subject to a \$13.25 newspaper clipping fee. A data collection trip to Ottawa for intrinsic variable question period is also being planned.

In a statement issued today the university president, Iamalways Right, notes "this extension of pure mathematical theory and real world politics can only enhance the student's university experience. Besides the way all those functions work is NEAT"

Foamer & Hickey

Prof Quotes

I came, I saw, I quoted

The prof quotes book sold out already! We've sent an order to the printers for more, but unfortunately they won't be here until September. Thanks to everyone who bought them. (Congratulations and thanks to Stuart Hodgins and Frank Letniowski who put it together.)

Anyways, on with the show. We seem to get a lot of quotes from the same profs regularly. I guess they're the only ones whose students weren't asleep this term. As for the rest of you, it's too late this term; wake up sometime before next term and submit those quotes!

"I like to get in at least one good violent military example a year."

C. Cutler, STAT 231

"For those of you who don't understand what I'm talking about, carry on."

T. Stengos, ECON 202

"We can't save the world, but at least we can find an orthonormal projection."

Shah, MATH 234a

"If you set the circuit up this way, you get 0/0 which as you know is 9371. If you don't believe me, cross multiply - it all checks out!"

P. Eastman, PHYS 352

"I looked at the Final the other day and I'm happy to see that we covered some of the material."

C. Cutler, STAT 231

"Did I forget to tell you I have a multiple personality?"

C. Cutler, STAT 231

"Student: "Cause $1 < 3$, right?"
Prof (Asking Class): "Well, is it?"

J. Bondy, C&O 350

"Eventually your brain will boil-and you don't want that!"

E. Graham, MUS 275

"I think it would be nice to give you a snowjob, a real snowjob, as to what's happening here."

M.A. McKiernan, AM 362

"So...we have to kind of...screw things around a bit...I was told I have to control my language."

D.H. Younger, C&O 350

"I'll give you a hint. The answer to both questions is the same, and it's not a 'Yes' either."

Ferguson, MATH 130b

"An ellipse? So that's what they call those squashed circles."

C. Cutler, STAT 231

"Being messed up lexicographically, is really being messed up."

D.H. Younger, C&O 350

"You're getting tired of this already, but you've got to sit there and take it. Heh, heh, heh."

R. Bartels, CS 374

"It's not what I say, it's not what I write, it's what I should have said."

M.A. McKiernan, AM 362

"Those people before 1930 were not asses...Laplace, Euler, Poincare, Lagrange...these people were not idiots."

M.A. McKiernan, AM 362

"And you could imagine what a mathematician could do with that...he could play around with it for his whole life."

M.A. McKiernan, AM 362

Frosh Issue

Last weekend, a hardy band of mathNEWS staffers put together the frosh issue of mathNEWS. Since most of you haven't seen a frosh issue since first year (fancy that), we decided to reprint the dean's message to this year's frosh, for your reading pleasure. Here it is:

Once again Ah gots been invited by de editors o' mathNEWS t' provide de damn Dean's greetin' t' dis year's freshman class fo' de special Orientashun Issue o' mathNEWS. Ah wants t' welcome ya' t' de Faculty o' Mathematics and wish ya' well on de scholastic achievements and personal adventures dat await ya' as ya' initiate and progress through yo' undergraduate carea'.

Dis year de Faculty gots'ta be makin' available more study space t' its undergraduate students. One o' de study space areas be specifically designed t' accommodate study groups, in some quiet and comfortable atmosphere, on de fourth flo'. Dis study hall be bein' scheduled fo' student use through de office o' de Math Society. Ya' know? Otha' conventional study space, also on de fourth flo', gots'ta remain open 24 hours some day. Ya' know? Combined wid our 'stensive use o' undergraduate clunker labs, we hope dat de damn Faculty be providin' de space and equipment t' support yo' scholastic endeavours. If howeva', dere be areas o' concern t' ya' as some Math Faculty student, please feel free t' let me know about dem. What it is, Mama!

mathNEWS be an 'scellent vehicle fo' ya' t' receive informashun and offa' yo' opinion about student life in de Faculty, but Ah also wants ya' t' know dat dere be some Faculty Student Liaison Committee through which ya' kin channel yo' concerns by informin' representatives fum de Math Society o' yo' interest in specific student issues.

While yo' plantation base gots'ta be de damn Faculty o' Mathematics, and ya' gots'ta primarily be travellin' across dat part o' de campus closest t' de Math and Clunker buildin' wid occasional forays t' de Davis Centre, Ah would recommend dat ya' 'spand yo' horizons t' include otha' activities and 'sposure t' academic material offered in de otha' faculties across campus. De campus gots'ta much t' offa' in terms o' both social and academic activities, and ya' should endeavour t' involve yourself in de larga' community. Ya' know?

Ah hope ya' gots'ta gots success in yo' academic achievements and pleasure in yo' time here as some student in de Faculty o' Mathematics.

Deen o' Mat

ISSN 0705-0410

mathNEWS is normally a bi-weekly publication funded by and responsible to, but otherwise independent of, the Mathematics Society at the University of Waterloo. Content is the responsibility of the mathNEWS editor; however, any opinions expressed herein are those of the authors and not necessarily those of MathSoc or mathNEWS. Send your correspondence to: mathNEWS, MC3041, University of Waterloo, 200 University Ave. W., Waterloo, Ontario, Canada, N2L 3G1, or to userid mathnews@watdcsu on USENET.

Editor: Stephen A. Smith, the omnipotent

How to Write Final Exams

Exam writing is not merely a time consuming game. It is a grueling, painful ordeal. Since great works of art stem from strong feeling, exam writing is the penultimate artform. (No prizes for guessing number one) Exam writing is also a surefire dieting technique. (Listen up ladies and gents, you too can lose 20 pounds in 10 days.) Most people however, are not interested in these finer points of exam writing. Most people are strangely result oriented. (hmmm... I think it has something to do with passing.) As a Mathie, you are facing really difficult exams unlike some other faculties which I could name if I really felt like it... in fact, why don't I - rec, arts, and engineering... just to name a few. The intent of this dissertation of to tell you about successful exam writing.

The first step to successfully writing exams is preparation. To avoid careless errors I suggest getting back to the basics. Watch Sesame Street the night before the exam. Another simple preparatory tip is to arrange a death in the family or a serious illness; you may even manage to avoid the dread event completely.

In the exam itself, there is very little you can do. Try buying a remote modem for your calculator; MAPLE does wonders for your integration skills. After the fact I can only recommend strong drink, good sex, and deep sleep. In that order.

the man without a pseudonym

MASTHEAD

Hi ho! This is the last issue this term (obviously). This issue's theme is 'exams'. There was some confusion amongst the writers on this point however, and they developed their own theme. I'll leave it the reader to guess what it is.

It was a good summer. We had a lot of fun writing *mathNEWS*, eating free pizza, and listening to abnormally good radio music (Hits FM plays good music from midnight to 6am—none of the usual top40 trash). It's too bad more people didn't show up to help out. People who come out and help have a direct effect on what shows up in your lap Friday mornings. So if you don't like what you see, do something about it. (No, please don't sue us, come out and write articles.)

I probably won't be editor in the winter term, although I won't rule out returning to the con in the distant future. I'd like to thank the people who helped me out along the way, former editors Frank Letniowski, Rick McTavish, and Tom Vandelloo.

Speaking of Tom, I noticed that I haven't gotten around to giving him a hard time in *mathNEWS* yet. Hmmm... what could I do? It's hard to pick on Tom though. He's submitted all his SocToc's diligently and faithfully. He's done a fairly good job as MathSoc prez (going beyond the call of duty to entertain us, like when we got to watch him run for his hat on the Grand Bend road trip.) He keeps his hair neat. He's not too tall. He hasn't got a big nose, really. He hasn't been in any really disastrous sex scandals *this* term. He really isn't as dumb as everyone says he is, or even as dumb as he looks. I could criticise him for not writing many articles for *mathNEWS* beyond SocToc, but I realize that Tom was busy this term, working as prez while taking killer courses like AM381. Hmm... maybe next term.

Thanks to the regulars who showed up this week: Dave Weil (Production manager), Eric Kinoshita (moral support), Tom Sturrock (general help), Andrew Tron (gridster I), Doug Hopkins (general silliness), Karen Wasslen (squiz and *mathNEWS* treasurer), Dave Balkwill (gridster II), and Paul Sahota (great artwork). (It's amazing that over half our staff is in AM. If these people facing a brutal courseload can spare the time to come and help out, couldn't you?) Thanks also go to DCS and the I/O room people and Marion and the Graphics Services people.

Good luck on those exams everyone, and have a nice workterm. Be excellent to each other and party on dudes!

Stephen Andrew Smith
(boring name eh?)

Focus on the Root of All Evil

There is one cause for all of the worlds problems. Since the beginning of mankind... er, personkind... um, peoplekind, one group has consistently brought the humyn race to its knees. For example, if it weren't for that creep Adam, we would still be in the garden of Eden eating apples. The Trojan war was caused by the unthinking animal urges of men, in fact, war was invented by men. War is a prime cause of disease. Men cause cancer. Smoking more than two packs a day is a serious health risk. If it weren't for men there wouldn't be crazed extremist feminists, if... Thats all.

the man with a different pseudonym

Limerick of the Week

Turner, the L. of the O.
Everyone thought should go.
Said he'd step down,
"Just find a new clown."
But why disrupt the Status Quo?

The Rubber Mallet of God
and The Pitchfork from Hell

Integer of the Week

1124000727777607680000

If your
**GRAD
PORTRAIT**
is important ...



**SUPER
SAVER \$39
SPECIAL**

2 - 8x10, 2 - 5x7, 6 - Wallets;
5 Black and White Glossies;
ALL NEGATIVES!!!
*some conditions apply.

- Deluxe Sitting (up to 16 full-size proofs)
- Up to half an hour devoted to your sitting!
- Traditional, casual and contemporary poses.
- Free Permaizing™ (the only way to make your portraits last)
- Photographed elsewhere and don't look your best?
— deduct THEIR sitting fee from your order with us!
- Appointments at YOUR convenience.
- Mail order or personal order service.
- Your choice of backgrounds.

**UNIVERSITY
PHOTOGRAPHERS**

Call 749-7000
268 King St. N. #211
(University & King)

MathNews IV—The Search For A Theme.

News... the last estate. These are the musings of the Mathnews Production team. Its four month mission to explore new pizza places; to seek out new ideas and new topics; to boldly go where no writer has gone before...

Episode X If all else fails...

Scene One

People are mulling around the MathSoc office one MathNews Production Monday Night. No articles have been written. There are no suggestions for topics for the new issue.

All of a sudden someone mumbles "Apathy. S**t".

The editor lifts his head off the terminal at which he was cat-napping, gazes around for a while with the merest hint of life and memory of former greatness in his eyes belying the blankness of his face.

"Apathy, yeah why not".

He shuffles listlessly from the room, tripping over a sleeping staff member.

"Hmph", the staffer moans, rolling over.

Scene Two

It's midnight and the DCS I/O room is closed. The editor is frantically trying to organise what little material there is for the issue.

"Did anyone type in that article about the dangers of apathy in the workplace? Anyone? Anyone? How about the quasi-historical piece about the spread of the apathy epidemic?"

"I dunno," mumbles a less-comatose-than-average writer, "I been asleep for a coupla hours."

"Do we even have a cover? Artist? Where's the artist?"

"I think he went home. He was bored and said that he couldn't get any inspiration. I don't think he cared much," contributes the gridmaster.

"Is the grid done then? Do we have anything?!" screeches the editor, his lassitude blown away by a surge of panic-induced adrenaline.

"Nah, it wasn't working out. I gave up on it. The production manager said he probably wouldn't have time to fix it anyway. I think he got sick of being alone and left to go drinking. He said no one would care."

"So all we've got is two ads, the title, one article, a social column and the look-ahead?!"

"Looks like it. Hey ed., we gotta go. See ya in a couple of weeks."

"I'm off too," agrees one of the writers.

"Me too."

"Uh-huh."

Slowly the staff drag themselves from the office. The editor sits slumped at the paste-up table. He looks at the pitiful few items, puts his head in his hands and sighs.

(Fade out)

Blud and ICE

Limerick of (some unspecified time period)

The ed. here is a real slime
To make me waste my time
I show up late
'n procrastinate
Who cares if it doesn't sound right.

The Rubber Mallet of God
and The Pitchfork from Hell

Room Temperature Partial DE's

Another UW first

WATERLOO (MNP) After years of research in grimy, dark computer labs on the 6th floor of the MC, two U(W) professors/researchers announced in March that they had succeeded in solving a partial differential equation in a room-temperature environment. Up to now, there has been no verified instance of anyone ever accomplishing such a feat—any 4th-year mathie will tell you that they can only be solved under high-pressure situations (like before a midterm) in a room that is at least 60 degrees.

In their breakthrough announcement, Kalbfleischmann and Ponz revealed how they did it. "It was quite simple, really," the oft-quoted Ponz admitted, "you just have to be using a palladium-plated mechanical pencil with heavy leads." According to the two, the only reasonable explanation for the phenomenon is that the extra clay in the heavy leads somehow manages to drain off the excess heat generated while the PDE is being solved, and it conducts this heat to the palladium sheath of the pencil which just happens to be the right shape to act as an antenna and beam off the radiation into "outer space somewhere."

At other universities, the reactions were mixed. "It's just too unbelievable!" exclaims Dr. Janice Sodbottom of the University of Guelph. "There are some inconsistencies in their paper. For example, there was no mention of how big an air conditioner there was in the room." Sodbottom, a doctor of Agricultural Science, is setting off to disprove Kalbfleischmann and Ponz' discovery. However, she claims, the information given in their paper is a little vague in areas, and this is going to hurt her in her research. "They didn't even say what brand of pencil they used!" she complains.

However, if this amazing new discovery actually does work as the two claim, it will be a great step forward, in both the fields of mathematics and climate control.

Our Raving Roving Correspondent

Top Ten Reason Why Women Really Don't Want a P_____

or Why Freud Was Wrong

10. Decrease in body volume to surface area ratio would increase their heat loss.
9. It could get caught in zippers, revolving doors, etc.
8. They would have to wear protection when playing football.
7. Tight clothes would be less comfortable.
6. It wouldn't be fashionable.
5. They wouldn't be able to wear miniskirts.
4. Relationships would be awkward if everyone had one.
3. Too much weight out front would throw their balance off.
2. They would have one fewer place to store stuff.
1. They wouldn't be as safe working around heavy machinery in the nude.

Drew and friends

mathNEWSquiz #4

Hi there! Welcome to the LAST mathNEWS issue of the summer. I'm sorry to be going ... well actually I'm not. Going that is. Yes, that's right, your friend (that's me!) will be back next semester to keep quizzing you. But I am sorry that you will be going. It has been a fun semester. Answers to this week's quiz will be on the mathNEWS door during the last week of exams, and will also be printed in the first issue of next semester.

A few comments on the last quiz. First of all, the flag everybody thought was Italy *wasn't!* Ha ha ha. Also, when I asked the question 'Who was almost a Beatle', I was referring to Pete Best. However, as one reader pointed out, Pete Best was with them when they were already the Beatles. So, I'm not going to count that question on a technicality. Sorry!

We had ten submissions this week. The winners are The Minstrel Ogres, Pencil, and the Magician, each with 8/15 correct. You lucky ogres may come and pick up your wonderful prize in the MathSoc office (MC3038) any time this week. Maybe while you're photocopying finals. Other submissions were from Harvey Maxwell Price with a little help from my friends, Sledge and Pseudopodium (you have a great August too, and the prize this week is *even better* than \$100) with 6/15; A Henselized Pilot, and BP each with 4/15 correct, and Pebbles; Paul Skratz; The Pup, Netty-Poo, The Hammerette, & Bippy with 3/15 correct, and Robyn L. Noalias with 2/15 correct.

Answers to last week's quiz are:

1. Sierra Leone
2. Zaire
3. The Ivory Coast
4. Peru
5. Stephen King
6. Ed McBain
7. Enid Blyton
8. Rona Jaffe
9. David Bowie
10. this was the Pete Best question
11. Bread
12. John Lennon
13. 1950's
14. low waisted pants
15. orange juice cans
16. 1984

And now for this week's quiz ...

DRINKS

1. What is the most popular drink in America?
2. What is in a Rusty Nail?
3. What would you substitute for Gin in a Singapore Sling to get a Planters Punch?
4. What is fondly referred to as 'Seven and Seven'?
5. What drink does gin, honey, and lemon juice make?

BASEBALL

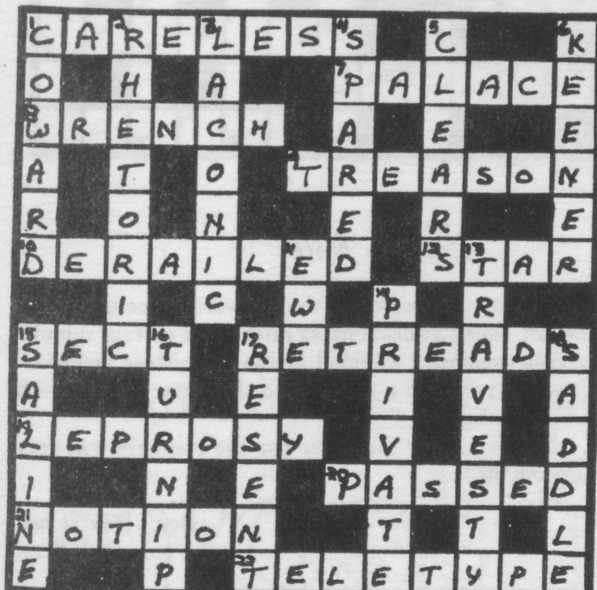
6. What zone varies from batter to batter?
7. What is known as The Green Monster?
8. Baseball derived from which two English games?
9. How many warmup pitches does a relief pitcher get when he comes into the game?
10. What equipment was Charles Waite the first to wear?

THE MOON

To Acknowledge the 20th anniversary of the first lunar landing

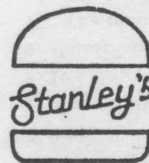
11. What was the first Apollo Mission to orbit the moon?
12. What was the name of the Mission that landed Armstrong on the moon?
13. Who was the second man on the moon?
14. What were the first words spoken from the moon?
15. Who was the first man to hit a golf ball on the moon?

Shooter
The mathNEWS quizmaster
(that's me!)
and Ditto



FREE BURGER

With the purchase of a similar burger, with this coupon.



VALID ONLY
ON REGULAR PRICED
ITEMS

Expires August 31, 1989

The Stanley Burger Philosophy



At Stanley's we believe that each customer deserves a great tasting, wholesome meal. Every item on our menu is prepared the olde-fashioned way using only fresh, nutritious ingredients. Our burgers are made with 100% pure beef, all-natural spices, no added preservatives and are served on bakery fresh buns. We take pride in putting only the best into everything we make.

Experience the Difference of a
Fresh Home Made Burger

210 King St. N. Waterloo



So long, and thanks for all the Gridcomments

This is it. CYBERman's and PSYDA's final GridWord. Pretty soon, we'll be off to the good ole United States of America to do our graduate studies. We'll always cherish the memories of our years here. It's been a slice. (BTW, where IS that pizza :-))

There were 12 submissions this week. All of them were correct. No one bothered to submit a token wrong submission. This means we have nobody to poke fun at this week. (Shucks!) The submissions came from: Crablegs; dB; Lord S'Djawkheril of the Rimward Deep; P Cecil; BP (Ok, so I had some help, alright?) [Understood: we all need a little help every now and then - CY]; the Macgician; The Pup, Netty-Poo, the Hammerette, & Bippy; Jammer; Matt and Chaz; Robyn L. Noalias; The Mock Chickenloafs; and Paul Skratz.

Holy Favourites, Batman: Holy Exam Schedule, Batman; Favourite Bugs Bunny & friends character; Holy death from above, Batman; Holy incredible string of 5 consecutive "A" division soccer championships!! (almost); Holy Hand Grenades; C&O prof evaluations [The 'Holy' and 'Batman' are implicit - CY]; Holy handgrenade Batman (three, not two, not four, three is the number . . . ; Holy Grail; Rev. Little Ed (and the Sisters waiting down in the Honda); Holy racial tension, Batman; Holy mush, Batman.

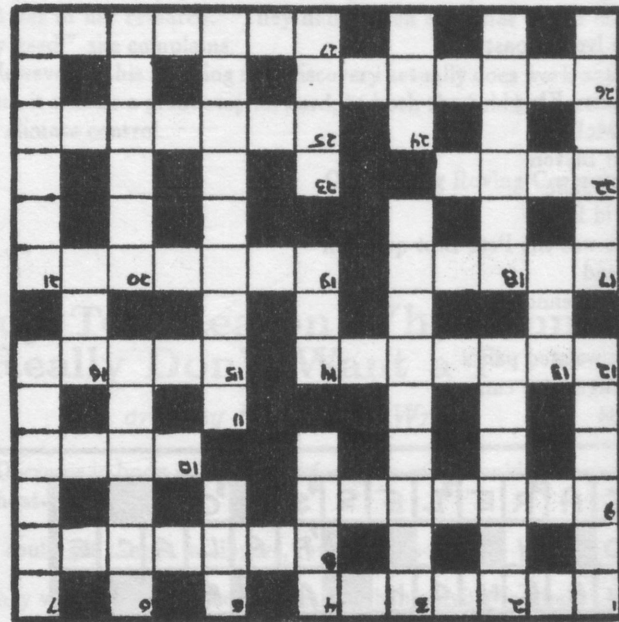
Comments: Only one week (Day?) left; Without Mel Blanc, life is nothing [a virtual blank-CY]; It's been great guys, thanks for the Grids! [you're welcome-CY]; since there is so much space now, I feel obligated to use it so . . . Dirty stinking Devil, I'll shoot him with my gun. He made me mad, the Devil's bad, the Devil is a bum . . . Double D, Double D Posse. Double D Posse, damn! . . . well, I almost used it all; Cryptics helped me avoid work for a whole weekend! They could help you, too!; I seem to be very uncreative when it comes to writing comments today!; Thanks for the term guys, I'll miss those oh so sexist clues [;-) - CY]; Please rate your GridWord using the following scale: A is Good, E is poor. Use HB pencils only; How am I supposed to use the Stanley Burger coupon when it's on the back of the GridWord page? (easy: make a photocopy (or several) - CY); Please tell me why Rich hasn't seen Batman yet. (Spike Lee rules!); I think I'm an alcoholic, nah, I know I'm an alcoholic, but as the gopher said, "I'm alright".

This week's winner is Crablegs. He, she or it may pick up The Prize at MathSoc office any time during business hours.

It's been lots of fun, guys and gals, and hopefully the fun will continue in the fall with the new GridMaster(s). Have a great year.

CYBERman and PSYDA

- Across**
- The result is not in stay's relative (7)
 - It's old, but current, around a junked chair (7)
 - Poisonous rear end contracted saint (7)
 - The mount is back to poker (4)
 - The language in an office to correctly ID dishes (7)
 - Violence in the half, or centre, of the field (5)
 - Duncan, after amputation, was mixed up in his reactions (5)
 - The speaker rambles more, the wetter 'e gets (7)
 - What's in a name? (4)
 - Criminal's habits within his depression (7)
 - Euphoria over a broken toenail (7)
 - That given by cartoonist cut off by his boss (7)
- Down**
- Out of the mouth of Roberts' headless fly (6)
 - Tch! The editor's like an elephant!! (6)
 - Offensive Bo's up to evil (9)
 - Every one's within reach (4)
 - Tennis card? (3)
 - Babe's bruise (6)
 - The clumsy pacers had an accident (6)
 - It's time for the sun to come down.
 - No-one fart or you'll mess it up! (9)
 - Terrorist investment (3)
 - That's endlessly in your head (3)
 - Prompt ball (3)
 - Monopolize the grain hesitantly (6)
 - Racer's organization is a continental blemish (6)
 - Aim to rotate gear between periods (6)
 - Recovered the Republican leader before his diseased steed (6)
 - Saint Dominic fill's cat's box (4)
 - Needle bites back (3)



Editor's Note

We received a letter to the creators of the gridword concerning some comments in the last issue's gridcomments directed at certain submitters concerning their comments directed at the submitters (gridmasters). The gridmasters prepared a response to this letter so that both could be printed in this issue.

As editor, I felt that neither the letter nor the response was very nice, so I didn't print them.

Don't look at me!
I'm only the editor.