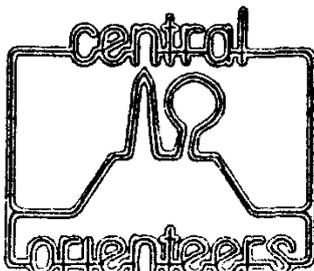


the Auckland **Orienteer**



NORTH WEST
ORIENTEERING CLUB



October 1987

EDITORIAL

WE ARE THE CHAMPIONS!

Congratulations to the New Zealand team that performed so creditably in the World Championships in France as well as in other international events. Katie Fettes, Carey Martin, Alistair Landels and David Melrose all qualified for the World Champs Final.

Congratulations also to the other New Zealand team, that for the first time ever, beat the Australians in both the Relay and Individual events of the annual Challenge between the two countries.

The relays were a close thing, with the lead see-sawing between the two countries until the final result - NZ 9 ; Australia 8.

The individual contest was a real struggle, in more ways than one, but again we emerged the victors - NZ 10 ; Australia 7.

Congratulations must also go to the selectors who had the job of choosing the teams and came up with the right combination.

More details on all the international events in the next issue of Mapsport, but in the meantime W100 gives us her report on page 9.

Keith Stone

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DEADLINE FOR NEXT ISSUE

20 OCTOBER

Address for contributions -
8 Agathis Avenue, Mairangi Bay, Auckland 10.

COMING EVENTS



OCTOBER

- 3/4 WH/NW Mangawhai: 2 Day forest event. Details on page 8.
4 NW Mangawhai: Re-run of OY5 for M17A, M21B and M50A, page 8.
4 P Tokoroa: CDOA OY6 on Te Whetu forest map. Signposted on SH1 at Puriri Road, 6km north of Tokoroa.
11 C Woodhill Forest: Auckland Championships & OY7 on Temu Road map. Badge event. Refer August magazine for details. Entries closed but Wayfarer course available on the day.
18 C Auckland Domain: Park event.
24 T Taupo: Warm up event for tomorrow.
25 T Taupo: New Zealand Individual Championships on Paetataramo forest map. Details in September magazine. Entries closed 25 September.
26 HB Taupo: New Zealand Relay Championships in Crohane forest. Details last month. Entries closed 25 September.
29 SA Auckland Primary School Championships. Entries via schools.

NOVEMBER

- 1 C Churchill Park: Park event.
1 SA Awhitu Regional Reserve: SA Closing Day - Fun events.
8 NW Riverhead Forest: Fun events.
14/15 D Dunedin: South Island Championships and Badge Event on rocky farmland at Middlemarch, 70km from Dunedin. Only details I have is what I read in Mapsport on page 30. Entries close 15 October.
15 C Remuera: Street & park event starting at College Rifles Park, Hurst Road, Remuera.
15 AOA Annual General Meeting at College Rifles Squash Club, Hurst Road, Remuera at 12.15pm.
15 R Rotorua: CDOA OY7 on Highlands Farm map.
15 HB Hawkes Bay Championships: No details.
21 KH Paekakariki: Wellington Individual Championships & Badge event on mixed dune, farmland and reserve map. Entries close 26 October. Details and entry form in September mag.
22 W Pauatahanui: Wellington Relay Championships on Te Ara Ore Puke map used at Easter.

START TIMES

Events can usually be started any time between 10.00am and 1.00pm.
Central Districts OY events start between 11.00am and 1.00pm.

CLOSING DATES FOR ENTRIES

- Oct 15 South Island Championships
Entries to: Dunedin Orienteering Club, P O Box 343, Dunedin
Oct 26 Wellington Individual Championships
Entries to: M Jefferis, 3 Kingswood Grove, Raumati Beach

☑ LETTERS TO THE EDITOR

Dear Editor,

This letter is to suggest some ideas on training and coaching for members of the Auckland Orienteering Association.

I have only been orienteering this year and I am enjoying it greatly, however, the only help that new participants receive is by asking questions and trying out new ideas themselves. With a little forethought this could be overcome.

Each club could provide a few experienced members to be available at any non-OY or badge event, at say 9.30am, to take a class(es) on the various aspects of orienteering. These aspects could be promulgated prior to the training sessions. The instructors should not be the same ones all the time and the training sessions should be for 60 - 90 minutes in duration and then onto the event for that day for practice and consolidation of ideas. Obviously this type of training can only be provided at venues where there is terrain available that would not encroach on the event being held. To assist the people conducting the actual orienteering perhaps the participants of the training sessions could help put up the tents etc whilst the coaches are getting their training courses set out. This may entail participants getting to the site at 8.30 or 9.00am. It may be possible to also hold a review session afterwards for the trainees.

I was gratified to see that John Rix wants to hold a course to coach the coaches. This is a pre-requisite for the above idea to expand properly. I am waiting for final details of this course with the fervent hope of being able to participate.

I believe that for all clubs to expand their membership and to improve all our abilities at orienteering, something along the above lines needs to be done. I look forward to hearing constructive criticism and expansion of the above ideas.

Bruce Hickman

☑ THIS MONTH'S COVER

Where in the Whorl?

Start at the arrow at bottom left, then journey to the centre by the shortest possible path. Your route may not go outside the thumb print.

Chris O'Brien

■ ON BEING A SELECTOR

I've been asked quite often over the past month on how I liked being a selector, so now that the teams have been selected and performed for NZ at WOC and the Aust/NZ Challenge, I've decided to have my thoughts printed so any future selector will know what to expect.

Firstly, I enjoyed the exercise of being a selector a great deal (I've been picking All Black teams since I was 10 years old!). Upon looking over the results I believe the selectors picked the strongest team available at the time of the final trial. I feel the experience factor is what won us the Challenge; some very experienced orienteers who had marginal form in the trials, came through to orienteer up to the selectors expectations when the big events came up, as they had done in previous years major events.

Of course the inevitable always happens and some of those who marginally missed selection pulled out top performances, particularly Michael Wood, Lesley Stone and Maurice Penney, and if a team was to be named now they would almost certainly be included. But then again when the team for APOC is selected after the Auckland and NZ Champs someone else might have excelled and the selectors will again be confronted with more difficult decisions. Whichever team is picked, there are those good orienteers who are going to marginally miss out and this is one negative factor in being a selector I dreaded - the disappointment which always shows on people's faces. But we were given the job of selecting the strongest team available with the No.1 priority of beating the Australians, not to make friends among fellow orienteers.

The selectors decisions were mostly taken in a sporting manner. The most controversial part of the selection was the choosing of different orienteers for the individual and relays in the M17 and M45 grades. In the M17's it was a case of keeping two equally rated and highly promising orienteers interested and keen in the sport at national level. In the M45's it was a case of running a steady orienteer and good relay runner in the relays, instead of an orienteer who could be brilliant in 60% of the major races and not so in the other 40% and who also had a poor record in relays (two wrong controls in 1985 National Relays and one in the 1986 Aust/NZ Challenge Relays). The fact that John had a great run for a composite team in the relays and failed in the individual for NZ, while Keith had steady runs in both, is now history of course.

Although there is a lack of depth in M & W19, NZ's orienteering future can be assured of many fine, young orienteers coming on up from the Under 16 and Under 18 grades. These teams were more than comparable with their strong Australian counterparts and contributed greatly to our two wins. To heighten our future international performances we must concentrate on carrying on John Rix's good work with our juniors. 'Look after the juniors, the rest will look after themselves' is an important statement which should not be forgotten.

I'm sure we were all a little disappointed with the publicity we received in the various papers, not just the overall reports but the inaccuracies of names etc. Also the statement made in the NZ Herald that 'Dave Melrose was rejected from the NZ Challenge team despite his good run in the WOC, etc, etc.' is totally incorrect. The WOC team was not considered for the Challenge because the selectors decided to select 'B' 21E teams to match the Australians who had

chosen 'B' teams in these grades. It would have done the sport more good if some of our top young orienteers' fine performances were highlighted, since they were in the actual Challenge.

One of the controversial aspects of selecting a NZ team is whether one should just look at times and placings in trials, in which case a statistician could do the selection, or whether the times and placings should be used as a guide to current form only, while still taking into account the 'experience', ability to rise to the occasion' and 'extremely promising' factors, in which case you need selectors. If we had stuck to the first option some of our top orienteers, who were only coming to form by the time of the Rotorua trial, would have missed out, and what selector in his right mind would pass over the likes of Terry Brighthouse, Phyl Snedden, Val Robinson etc. Which once again leads me to a statement I made in the August issue of 'The Auckland Orienteer' - we need our trials close to the event for which the team is being chosen, preferably within four weeks.

Lastly, it was good to see our younger WOC team members coming through with strong performances overseas. With Katie Fettes, Carey Martin, Alistair Landels, Peter Hill and Jeanine Browne producing the goods, and reports of Alistair Cory-Wright and Joanne Cunningham making great improvement, we can look forward to sending a strong, young team to WOC '89 in Sweden.

Wayne Aspin

Editor's Comments:

Firstly, thanks Wayne for giving us the thoughts behind some of the selection decisions. I hope we never get to the stage where the NZ team is selected purely on a statistical basis, and agree that the other factors you mentioned must be taken into account. However various events were called 'trials' and orienteers that performed well in them would naturally expect to be selected. I still believe there were too many 'trials', in fact the emphasis given to the Rotorua event by Wayne would tend to suggest that the earlier events should not have been called 'trials'. Doing so only raises the hopes of those that run well in them.

I disagree with the need to have trials as late as four weeks before the competition event. The lateness of the selection of the NZ team for the Challenge caused problems for the Team Manager and Team Captain; the team did not have an opportunity to meet together until the night before the first event. Entries for the APOC '88 events, which include the next Aust/NZ Challenge, closed on 30 September. Our family, which includes three selected in the recent NZ team, when considering whether to enter APOC or not, decided not to travel to Tasmania. Had the NZ team for APOC been announced prior to entries closing, and had any member of our family been chosen in the team, then our decision may well have been different.

On the matter of publicity, I couldn't agree more. The article in the NZ Herald really annoyed me, and the results were inaccurate, being the sum of the times of the 3 runners in each team whereas the competition was decided on the sum of the first two from each team. However any publicity is better than none, and while nobody is prepared to take on the role of Publicity Officer for the AOA (see p.8 September mag.) then the present situation will not change.

Keith Stone

■ WOODHILL FOREST

Back in June, we published an article written by Bruce Henderson on the changes to the administration of recreational activities in Woodhill Forest following the corporatisation of the NZ Forest Service. The new Forest Corporation laid down a comprehensive list of rules which had to be followed precisely by all users of the forest, which included orienteers.

Since then there have been occasions when the rules have not been followed to the satisfaction of the Forest personnel and our continued use of the forest has been threatened.

Tony Nicholls has now been appointed to the position of liaison officer with the Forest Corporation and all contact with the Corporation must be made via Tony. Both Central and North West Clubs have been given a full set of the rules applicable to Woodhill Forest and all event organisers using Woodhill Forest must read these and follow them strictly. They must also contact Tony so that he can liaise with the Forest where necessary.

If anyone experiences any problem with the Forest Corporation they should contact Tony Nicholls promptly and give him full details. Tony's phone number is 666-984. It is essential for our sport that a good relationship with the Forest Corporation is maintained at all times and this depends on all club members abiding by the rules.

CRAIG JAMES SNEDDEN

Orienteers were saddened to hear of the tragic death of Craig, 19 years old, in a motorcycle accident on 16 September.

Craig began orienteering as a youngster with the South Auckland Club and could always be relied on to lend a hand at events. He played accordion with his local orchestra and more recently was a keen member of a motorcycle club.

We shall all miss his cheerful smile and our sympathy goes to his family Phyl, Jim, Stephen and Suzie.

MANGAWHAI 2-DAY ORIENTEERING WEEKEND 3-4 OCTOBER

This will be both a social and competitive event in one ~two days of running on sandhill terrain, the same format both days, and for those staying at the camp an evening of food à la Judy and a chance to spend time socialising with over 50 fellow club members.

Each day the courses offered will be as follows: (The colours correspond to the British system, and will be a feature of Northwest Promotion events next year)

Course 1 (Brown) 7.0 km+ - Technically difficult, with point feature control sites, route choice decisions etc.

Course 2 (Blue) 5-6.5 km - Also challenging, but shorter and less physically demanding.

Course 3 (Red) 4-5 km - Medium difficulty, with rough compass work, some route choice. Suitable for those with some experience or junior/B- grade competitors.

Course 4 (Yellow) 2-3 km - Easy, with obvious route choice, controls on major and line features (e.g. track bends and junctions), no compass needed. Suitable for novices and family groups.

Course 5 (White) 1.5-2km, - Very easy, all turnings and some routes marked by controls and trail signs. Suitable for newcomers and novice children.

OY5 Rerun: On Sunday 4 Oct., Course 2 (Blue) will be the rerun of the course that was invalidated at Otakanini-Topu. This concerns M50, M17 and M21B grades. Please note that as it is a rerun, only those who ran in the original event (i.e., at Otakanini-Topu) are eligible for OY points.

To get there:

The camp is situated on the corner of North St and the Mangawhai Heads Road in the middle of the Heads township, a couple of hundred metres past the golf course and on the opposite (right) side. It will be signposted on Saturday. *Please note the camp rules re alcohol!!*

Day One (Mangawhai North): From Auckland, Turn off S.H.1 north of Te Hana and stay on this road until after the tarseal ends (Do NOT follow Forest H.Q. signs!) At the hilltop look for "O" signs at Te Arai Point Road. Turn right and follow the signs.

Day Two (Mangawhai South): Turn off at Te Hana, and turn right towards Forest H.Q., 1km after the Tomorata Rugby Club. The route will be signposted from this junction. Maps showing the route from the camp will be on display in the dining room.

See you there!

Bruce Henderson.

Day 1: Setter - Mike Williams
Controller - Rhys Thompson

Day 2: Setter - Bruce Henderson.
Controller - Laurie Baxter.
Event Controller - Laurie Baxter.

■ FOUR BROTHERS

Squally, biting winds, beating rain and mud, glorious mud - Kapamahunga - the Four Brothers.

Right at the start a blustery hail shower struck terror to my quaking soul as I sheltered behind a tree out of sight of more hardy souls. I used this fleeting moment to check map, and set sights on damn bush line in far beyond. No.1 was going to be a marathon - one of those days - it was no great shakes to meet a competitor returning, telling me in passing she was getting out of that bush and going home. Good idea. Why did I ever leave the warmth and dry of our campervan?

A very chubby, extrovert lad led me after 20 minutes search to No.1. Of course it was where I knew it was, it's just that I didn't want to get my feet wet getting into that creek. I finally saw the light; the creek was the clue. Peering shortsightedly at my map - glasses discarded in those wet conditions - I decided never to let that stream out of my failing sight. Quite easy as it was swollen, brown and angrily racing to a finish all of it's own.

Keeping on steep hillsides, one foot shorter than the other, was a work of art. Supplejacks threatened to garrotte one, silver ferns strewn my path as I cut swathes through, making it ever easier for Oz to follow. Ponga logs crashed under me as I slipped, staggered and slithered round headland after headland, counting streams crossed and trying to find my place on a rapidly disintegrating map. Well-trained fit athletes and mountaineers caught me up and I stood aside. "Pass, friend", I murmured, as yet another bole of an ancient tree threw me down towards the rushing stream. My knickers are forever amber.

At last a crossing; I took a stick and gingerly tried the depth, I was not yet quite ready to be swept to Paradise. Only four inches! Anticlimax! I wallowed through, washed my muddy shoes, splish, slosh. Up, up and over but my tired brain refused the over bit, so another 20 minutes was wasted hashing along a ridge. But success at last, on to No.7, perfect, and a long, long trail a-winding up, of course, to final one. I look at the time - 1.00pm. I have been out nearly four hours! Who cares, all I have to do is hack my way HOME.

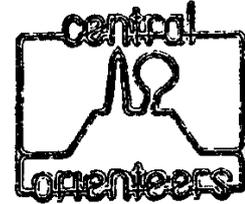
Swamp, titree, swamp, squelch, squish - perhaps the Club will bury me on that little knoll, with a wee flag waving. Is it mine? Oh God, I pray, just get me to the lake. In steps dear Andy who yells, "Here's yours". Great. Into mud for last and final struggle against wind and rain beating me to a purple pulp. Stagger into Finish, quick glance at time, 11.40! (Must have been 11.05 before!) What a surprise though it felt like four hours.

Cold, wet, thwarted and aged beyond natural years - never did see the Four Brothers. But perhaps I did. Brother one - the plump, happy teenager who bounced into No.1; second brother, the mighty stream guiding my left hand; third brother, Andy who saw my fatigue and misery and wasted his precious seconds to help; and brother four, the evil one, the west wind fighting me every inch of the uphill trek home.

Give up 'O'ing and stick to knitting from now on.

W100 + 1

■ CENTRAL CHATTER



- New Member: Welcome to Grant Steel. Grant will be competing in the M15 grade. Also welcome back to Sheryl Humphries.
- MAPSPORT: Issue 5 (Quick Quiz: Whatever happened to issue 4?), produced by the Wellington Orienteering Association is now to hand. MAPSPORT is our national magazine and is produced four times per year. This issue of 48 pages is full of interesting articles and has sections on Event Reports, News and Views, Training, Coming Events, Technical and OY Progress Results. Members are asked to pick up their labelled copy from the BLUE BOX at the next events. Members are reminded that these magazines will NOT be posted out. The BLUE BOX will be taken to all events for the next three months and any magazines left after then will be destroyed. You have been warned!
Quick Quiz answer: There were TWO Issue No.3, the first put out by Dunedin Club in November 1986 and the second by Pinelands Club in May 1987.
- From the Committee: It was suggested that the Club obtain a portable shed for storing surplus gear - i.e. all the equipment that is not needed for a park event but is vital for a forest event. It was also suggested that the Club seriously consider replacing the aging campermatic with a pop-top caravan.
- O-Suit/Sweatshirt Design: At present there are two o-suit designs in line for the first prize, but the decision will have to be made on the feasibility of the design and the availability of the required material. Hopefully there will be a result for the November issue.
- Closing Event - A.G.M.: This will be held on November 15 at College Rifles Park, Remuera. As has been the case for the last two years, Tony Nicholls will be organising one of his "Fun Events". Last year at Totara Park everyone had a great time, so put a big circle around this date on your calendar. The annual event that should not be missed!
- Club Officers: Please give careful thought to offering your services to the Club either as a Club officer or as a committee member. Several members on the committee feel that some new blood is needed with new ideas. So, how about it? Your Club needs YOU!
- Congratulations to all our New Zealand reps for such a valiant effort at Whatawhata. (In fact, Chatterbox reckons that anyone who managed to finish deserved a medal!)
- Next Club Meeting: 7 October at 7.30pm at the Nuthall residence, 30 Epsom Avenue, Epsom. Everyone is welcome.

That's all for this month.

Chatterbox (Ph 884-375)

▣ N.Z.O.F. LIFE MEMBER



The Pinelands Orienteering Club has forwarded a motion to the New Zealand Orienteering Federation nominating Tony Nicholls of Central Club for life membership of the N.Z.O.F. for his services to the development and promotion of orienteering in New Zealand over the last 15 years.

The Management Committee of the N.Z.O.F. considers the nomination to be warranted and the honour well deserved, and the nomination will therefore be put to the Federation's 1988 Annual General Meeting with the Committee's recommendation.

There are very few Auckland orienteers, if any, who have not benefited in some way from the dedication given to the sport by Tony over many, many years, and we all agree with the N.Z.O.F. Committee that this honour is thoroughly deserved.

Although it will not be passed officially until the 1988 A.G.M.,
CONGRATULATIONS TONY!

+ + + + +

▣ NORTH WEST NEWS



- The Club dinner and Prizegiving is on Tuesday 10 November at the Windsor Park Hotel, Mairangi Bay. Adults \$18.70, 10-15 years \$12.00, 5-9 years \$9.00. Last year we had a lot of fun and intend a repeat performance this year. Come and join in. Phone Lorri O'Brien on 415-8932 by November 1st.
- A warm welcome to new member Wayne Parlevliet and best wishes to the Stickels Family who are returning to the United States to live. Happy orienteering and keep in touch.
- Australian Challenge: There were some great performances by club members in the Individual Challenge against Australia. All team members did well but some others did even better. Dave Melrose M21E, Judy Martin W50A and Maurice Penney M50A all won their grades with Stan Foster 2nd M35A, Mary Moen 4th W35A and Bruce Henderson 4th M40A. Congratulations to Lesley Stone on her late selection for the New Zealand team.
- Our A.G.M. is on Thursday 3 December at Birkdale Primary School. Take this opportunity to come and have your say in club affairs.

- Fund Raising: The club decided at its last meeting to raise some funds by the sale of chocolate bars. The chocolate sells for \$2 per bar and when all is sold the club stands to earn several hundred dollars. Some chocolate was distributed at the Auckland Relays and those members who did not get any then will be given some shortly. Please do your best to sell it as soon as possible and return the proceeds to Stan Foster.
- Club meeting: Meetings are held at Birkdale Primary School, on the corner of Birkdale & Salisbury Roads, Birkdale on the first Thursday of every month commencing at 7.30pm. The next meetings are on 1 October and 5 November. All members are welcome.

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▣ THE WEASEL REPORT



The social highlight of September was held at the Paerata School on Monday 21 September. After a welcome by President Robbie to the gathered 40 a presentation of unique club jerseys was made to our two world champ squad members Jeanine Browne and Rob Garden. They gave a resume of their trip, together with a discussion on the maps they encountered. Use of an overhead projector made for easy exploration. Stage 2 of the evening was a discourse on course planning and setting procedures headed by Ross Brighthouse and Wayne Aspin. No excuses for next year! Thanks to Val Robinson for the venue, tea and coffee. We even had the attendance of a spy from Central, hope you enjoyed it all.

Robbie offered all and sundry the opportunity of choosing their own venue and/or job for next year's calendar. Several slots were filled thus leaving the balance to be allocated by conscription.

The club executive extends congratulations to all club members who took part in the recent NZ / Australia Challenge success. Team Manager Jill Dalton is rumoured to be exceedingly chuffed by it all. The Weasel's award for unselfish sportsmanship goes to our club secretary Rosemary Gatland for standing down from what would have been her first outing as a New Zealand rep when she received an ankle injury. Real bad luck Rosemary; I'm sure you will make it next time.

OYE OYE!

2nd November 7.30pm Paerata School AGM for 1987

Your attendance with a plate would help a successful club to be even better.

We finish on a sadder note and offer our sincerest condolences to the Snedden family on the loss of their son and brother Craig, and to Neville Phillips on the loss of his mother.

The Weasel

31 August, 1987.

NZOF News

NEW ADDRESS FOR N.Z.O.F. SECRETARY.

Would all Club Secretaries please note that future correspondence should be addressed to me at"-

1/8 White Heron Drive,
Massey East,
Auckland, 8.

Phone (09) 8324-633

I.O.F. FIXTURES 1988

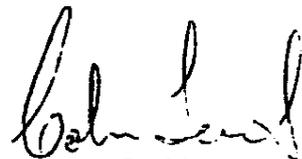
I have a copy of the Preliminary Fixtures List for 1988 available. If anyone would like one please let me know and I will send a copy.

1988 AUSTRALIA/NEW ZEALAND CHALLENGE

Would all prospective team members for the 1988 Challenge in Tasmania please note that there appears to be a change in the date for the Individual Event. According to a notice in the latest "Australian Orienteer" the date has been changed to Wednesday, 13 January, 1988. This is in contradiction to the official entry form. Clarification is being sought from the Orienteering Federation of Australia but in the meantime it should be taken that the changed date will in fact apply.

N.Z.O.F. COUNCIL MEETING

The next meeting of the Council will be held in Taupo on Saturday 24 October, 1987 at 7.00 p.m. This is of course the evening before the National Champs but it has been chosen to ensure a good representation from all Clubs. If any Clubs have additional items for the agenda would they please let me know as soon as possible so I can have them circulated. Details of the venue will be advise at a later date.



Colin Tait
Secretary.

☐ NZ ORIENTEERING CHAMPIONSHIPS

SPECIAL NOTICE

Grades on different courses for this event have been altered to give a more balanced combination. Two additional grades have also been added, M60 and W55.

The new combinations are as follows:-

<u>Course</u>	<u>Grades</u>	<u>Course</u>	<u>Grades</u>
1	M21E	9	M55, M60, W17-18, W45A
2	W21E	10	M21C, M40B, W21B
3	M19-20, M21A, M35A	11	W50, W55
4	M17-18, M40A	12	M13-14A, M45B, W15-16, W35B
5	M45A, W19-20, W21A, W35A	13	W13-14A, W21C, W40B, W45B
6	M50, W40A	14	M12A, M13-14B, W12A, W13-14B.
7	M15-16, M21B	15	M12B, W12B
8	M35B		
	+		+

☐ COMPUTERISED NAVIGATION

What can a business do with a product ahead of its time?
Answer: sell the technology behind it.

Etak, a small Californian company, has developed a computerised car navigation system to replace paper maps. The navigator displays a street map on a small television screen in the car and also tracks the car's position on the map, using a compass to tell the computer in which direction the car is driving. Wheel sensors register how far it has gone.

To do these jobs, Etak has had to develop good digitised maps, techniques for quickly finding a given street or neighbourhood on the map, and navigation techniques to track a car's progress. As a result the navigators cost about US\$1000 a piece, so Etak has only sold about 2000.

Fortunately it has found a better market for the underlying technologies. To make maps for the navigator, Etak developed ways of automating the entry of geographic information into computers. It is now using those skills to make maps for, among others, the United States Census Bureau.

Etak has more ambitious plans for products that combine its maps with database software. The Los Angeles Times, for instance, is now experimenting with Etak's technology to help to improve its newspaper delivery routes. Eventually Etak hopes to open up a market for computerised map databases to keep track of the wires and pipes of utilities.

Next year Blaupunkt will give West German BMW owners the option of computerised navigators in new cars, but General Motors, Etak's American licensee, does not plan to put the device into its cars before the early 1990's.

From NZ Herald 15.9.87

■ **PROBLEM PAGE**

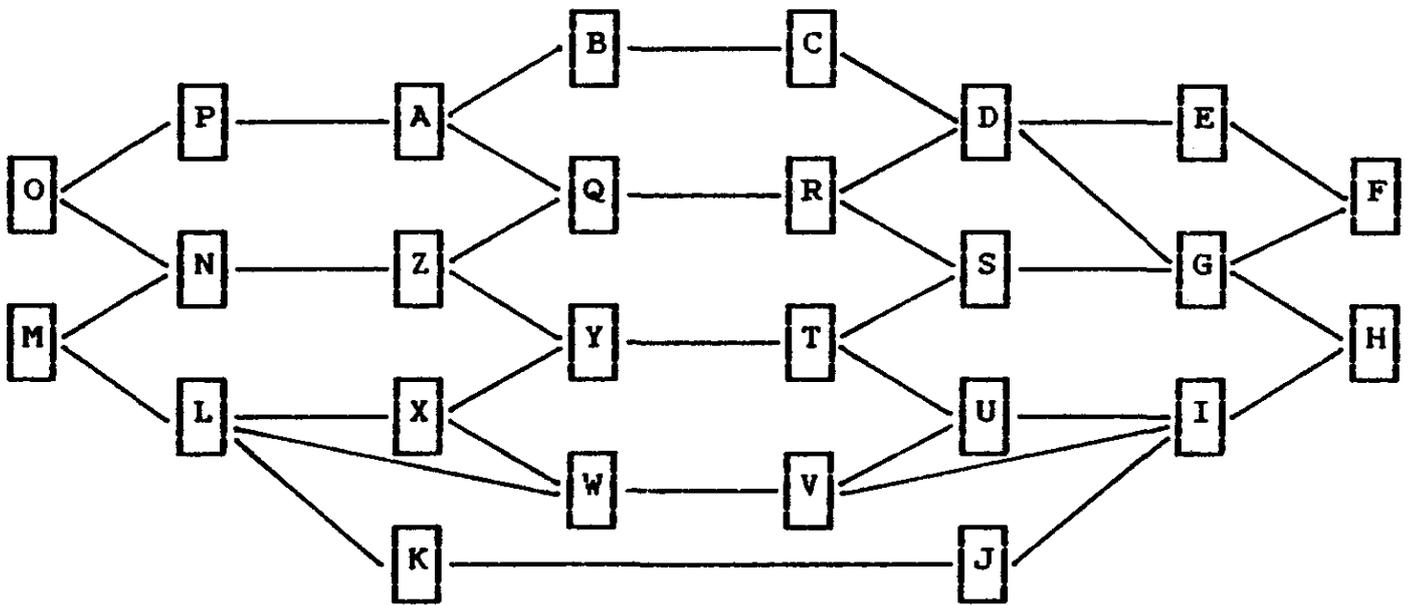
My friend's son had been travelling around the little-known areas of Europe, and sent this letter to his mother, via the embassy.

4 March 1984

Help Mum! I've been arrested for murder! Last night I arrived at the small township of A and the police turned up to take me into custody for the murder of a man at noon, on February 27, half-way between the towns of F and G.

God knows where I was at the time! I've been on a walking tour, and left A at dawn on February 22. I made it a rule to walk to the next town in one day and stay the night. I've enclosed a rough map. I'm the only foreigner in these parts, and believe me, I'm in trouble! Can you figure out my route?

Your loving son,
Joe



Answer to last month's puzzle: GRIEF or BLISS?

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      W I N E
      7 4 9 3
+   W O M E N
      7 6 2 3 9
+     S O N G
      1 6 9 8
-----
    G R I E F
    8 5 4 3 0
=====

```

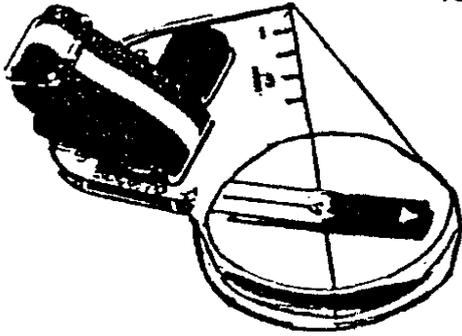
```

      W I N E
      8 3 4 1
+   W O M E N
      8 7 2 1 4
+     S O N G
      0 7 4 5
-----
    B L I S S
    9 6 3 0 0
=====

```

Which means the preacher lost, although it is a bit like under-arm bowling to start a number with a zero isn't it.

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