37. Wickelgren, Wayne A. <u>How to Solve Problems</u>. W. H. Freeman and Company. San Francisco, 1974.

(Editor's Note: This article is a summary of a presentation made by Mr. Heitger at the Annual Meeting of OCTM in March 1987. After hearing the presentation, I received his permission to include material from his handout in this Journal.)

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STATE OF THE MEMBERSHIP MESSAGE

Sister Mary Theresa Sharp, SND
OCTM Membership Secretary
Notre Dame College of Ohio

Mathematics education in the state of Ohio is supported by OCTM's present 2,848 members, 2,792 of whom reside throughout the state. OCTM's membership history, present state, and future in the state of Ohio are delineated in this article. If this article is to have its maximum effectiveness in influencing OCTM's future history, it is important that you take the time to answer the questions included in this article.

THE PAST

In dealing with the past, this present state-of-the-membership message refers only to the immediate past from December 1985 until March 1987. A few months prior to December 1985, Bill Hunt mentioned to me that OCTM would be in need of a membership secretary. At the December 1985 Board Meeting, OCTM President Bill Hunt sought and obtained the approval of the at-that-time President-Elect, William Speer, and the remainder of the OCTM Board for my appointment to that position. Bill also obtained the approval of the Board for the purchase of a 20 megabyte Sider hard disk for membership data storage and sorting.
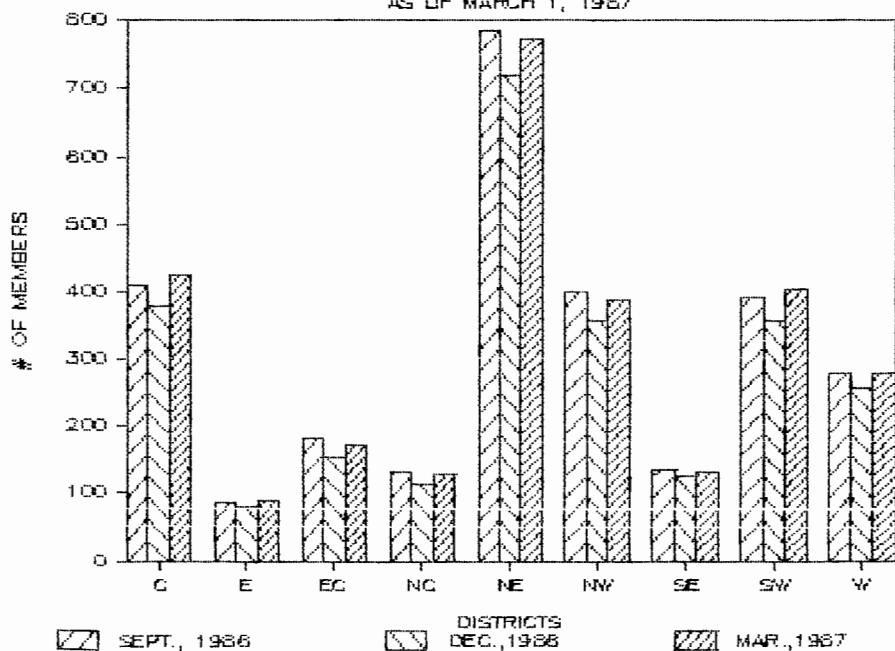
The first task facing me was designing a database file for maintaining our membership records using the software, DB Master by Stoneware, a package considerably more powerful than the one

previously used for maintaining the records. Adopting this package meant that the 2,700 records had to be re-keyed. For that re-keying, for the majority of the data entry to date as well as for consultation on the initial file design, a local member of the membership committee, Barb Suszek, has donated hundreds of hours of her time.

With the new software it is now possible to send the JOURNAL Editor, Harold Brockman, and the NEWSLETTER Editor, Charles W. Smith, Jr., only one set of labels all in zip code order instead of the previous several sets each of which was in zip code order. DB master also permits easy counting of the members in each district. This information, summarized in the graph below, has been part of the membership report at the past three board meetings: Sept. 1986, Dec. 1986, and Mar. 1987.

OCTM MEMBERSHIP BY DISTRICT

AS OF MARCH 1, 1987

DISTRICTS

SEPT., 1986   DEC.,1986   MAR.,1987

THE PRESENT

After this information was presented at the OCTM Business Meeting on March 21, 1987, Len Pikaart suggested that I also convey to the membership how the total population in each district varies. The population figures used in the tables below are 1980 census figures for counties in Ohio.

Several other facts in addition to the 1980 county population figures are significant to this reporting on the present status of OCTM's membership both above by district and below by county within each district.

1. The OCTM membership figures are as of March 1, 1987.

2. There are 56 members of OCTM who do not reside in Ohio.

3. I have not received information on the school districts of a significant percentage of our membership. Therefore, the mailing address of the member determines the county for each member.

4. In the tables below, the name in parentheses next to the name of the county is the county seat of the county, or the principal town in the county, if that is not the county seat.

5. The counties are divided into districts according to the districts determined by the Ohio Education Association.

Keeping the above facts in mind will make the tables below much more meaningful.

(Please see the tables appearing on the next two pages)

District	# OCTM Members	County	Total Population
Central	5	Champaign(Urbana)	33,649
	37	Clark(Springfield)	150,236
	15	Delaware(Delaware)	53,840
	28	Fairchild(Lancaster)	93,678
	6	Fayette(Washington C H)	27,467
	183	Franklin(Columbus)	869,126
	63	Licking(Newark)	120,981
	13	Logan(Bellefontaine)	39,155
	7	Madison(London)	33,004
	19	Marion(Marion)	67,974
	8	Pickaway(Circleville)	43,662
	28	Ross(Chillicothe)	65,004
	12	Union(Marysville)	29,536
East	19	Belmont(Martins Ferry)	82,569
	12	Coshocton(Coshocton)	36,024
	15	Guernsey(Cambridge)	42,024
	3	Harrison(Cadiz)	18,152
	10	Jefferson(Steubenville)	91,564
	2	Monroe(Woodsfield)	17,382
	26	Muskingum(Zanesville)	83,340
	1	Noble(Caldwell)	11,310
East	1	Carroll(Carrollton)	25,598
Central	23	Columbiana(East Liverpool)	113,572
	1	Holmes(Millersburg)	29,416
	93	Stark(Canton)	378,823
	23	Tuscarawas(New Philadelphia)	84,614
	33	Wayne(Wooster)	97,408
North	25	Ashland(Ashland)	46,178
Central	15	Crawford(Bucyrus)	50,075
	24	Huron(Norwalk)	54,608
	20	Knox(Mount Vernon)	46,304
	3	Morrow(Mount Gilead)	26,480
	41	Richland(Mansfield)	131,205
North	20	Ashtabula(Ashtabula)	104,215
East	267	Cuyahoga(Cleveland)	1,498,400
	27	Erie(Sandusky)	79,655
	28	Geauga(Chardon)	74,474
	53	Lake(Mentor)	212,801
	59	Lorain(Lorain)	274,909
	73	Mahoning(Youngstown)	289,487
	36	Medina(Brunswick)	113,150
	44	Portage(Kent)	135,856
	126	Summit(Akron)	524,472
	44	Trumbull(Warren)	241,863

North	30	Allen(Lima)	112,241
West	10	Defiance(Defiance)	39,987
	15	Fulton(Wauseon)	37,751
	24	Hancock(Findlay)	64,581
	7	Hardin(Kenton)	32,719
	14	Henry(Napoleon)	28,383
	115	Lucas(Toledo)	471,741
	10	Ottawa(Port Clinton)	40,076
	4	Paulding(Paulding)	21,302
	8	Putman(Ottawa)	32,991
	18	Sandusky(Fremont)	63,267
	17	Seneca(Tiffin)	61,901
	1	Van Wert(Van Wert)	30,458
	8	Williams(Bryan)	36,369
	94	Wood(Bowling Green)	107,372
	10	Wyandot(Upper Sandusky	22,651
South	20	Athens(Athens)	56,399
East	13	Gallia(Gallipolis)	30,098
	6	Hocking(Logan)	24,304
	16	Jackson(Jackson)	30,592
	7	Lawrence(Ironton)	63,849
	4	Meigs(Middleport)	23,641
	5	Morgan(McConnelsville)	14,241
	9	Perry(New Lexington)	31,032
	8	Pike(Waverly)	22,802
	17	Scioto(Portsmouth)	84,545
	2	Vinton(McArthur)	11,584
	25	Washington(Marietta)	64,266
South	3	Adams(West Union)	24,328
West	12	Brown(Georgetown)	31,920
	121	Butler(Hamilton)	258,787
	24	Clermont(Milford)	128,483
	7	Clinton(Wilmington)	34,603
	199	Hamilton(Cincinnati)	873,224
	11	Highland(Hillsboro)	33,477
	26	Warren(Franklin)	99,276
West	11	Auglaize(St Marys)	42,554
	13	Drake(Greenville)	55,096
	27	Greene(Beavercreek)	129,769
	18	Mercer(Celina)	38,334
	25	Miami(Pique)	90,381
	149	Montgomery(Dayton)	571,697
	17	Preble(Eaton)	38,223
	19	Shelby(Sidney)	43,089
TOTALS:	2792		11,087,093

Based on the information given in the above tables, how many of the following questions can you (or your students) answer?

1. What percentage of the total population of YOUR COUNTY are members of the Ohio Council of Teachers of Mathematics?

2. Is this percentage above or below the statewide percent?

3. What percentage of the total population of YOUR DISTRICT are members of OCTM?

4. Is your district percentage above or below the statewide percent?

5. Which county in Ohio has the largest percent of OCTM members?

6. Which district in Ohio has the largest percent of OCTM members?

THE FUTURE

The above table and answers to the above questions give you information about your place in OCTM's present growth. You also have the opportunity to influence OCTM's future growth. If you know of colleagues who are not receiving our JOURNAL, our NEWSLETTER, a ballot at election time, a program book for our Annual Meeting, and the other benefits of OCTM, give them copies of the membership form on the back inside cover of this JOURNAL. OCTM is a fine group of people. Its future is in our hands all across Ohio.

Membership Information

To determine when your membership in OCTM expires, look at the address label on this Journal. If there is a four-digit number such as 8709, it means that membership expires in September, 1987. If the number is 9999 or 9998, you are a life member. If OEA is on the label, it means that you have paid your dues through OEA. If MC or OCTM appears, you have paid the dues directly to OCTM.

If you receive a notice to renew your membership and it says FINAL NOTICE at the top, you must respond with your renewal payment within one month or you will be dropped from the membership list.