

Name: _____

Date: _____

Unit 1

1. Draw lines to connect the pictures with the words.



group

kilometre

cross out

a guitar

a student

a monster

a list

type

a page

~~UNEMPLOYED~~



9/

Preface

The present volume is an outgrowth of a Conference on Mathematical Tables held at Cambridge, Mass., on September 10-14, 1974, under the auspices of the National Science Foundation and the Massachusetts Institute of Technology. The purpose of the meeting was to evaluate the need for mathematical tables in the light of the probability of large-scale computing machines. It was the consensus of opinion that in spite of the increasing use of the new machines the need for tables would continue to exist.

Extensive series of mathematical functions are in various demand by scientists and engineers. A greater variety of functions and tables of values are now required as a result of scientific advances and, especially, of the increasing use of automatic computers. In the latter connection, the tables were among the preliminary surveys of problems before programming for machine solution. For those without easy access to computers, such tables are of course indispensable.

Consequently, the Conference recognized that there was a growing need for a modernized version of the classical tables of functions of Julius Birk. To implement the project, the National Science Foundation requested the National Bureau of Standards to prepare such a volume and established an Ad Hoc Advisory Committee, with Professor Philip M. Morse of the Massachusetts Institute of Technology as chairman, to advise the staff of the National Bureau of Standards during the course of the preparation. In addition to the Chairman, the Committee consisted of A. Brackley, Jr., C. Cray, W. Hartman, J. B. Kistner, Jr., C. L. Lathrop, Jr., John Todd, C. B. Treadwell, and J. W. Tracy.

The primary aim has been to include a maximum of useful information within the limits of a moderately large volume, with particular attention to the needs of existing or all fields. The attempt has been made to cover the entire field of special functions. To serve not the past but the future, the Ad Hoc Committee has been endeavoring to supplement the tables by including the mathematical properties that are important in computer work, as well as by providing numerical methods which demonstrate the use and reliability of the tables.

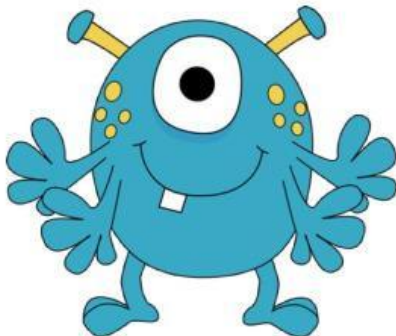
The Handbook was prepared under the direction of the late Milton Abramowitz, and under the supervision of the present chairman, Philip M. Morse. The Handbook is a product of the Ad Hoc Committee and is greatly indebted to the particular contributions of those and other individuals who have contributed to the Handbook. The responsibility of the National Science Foundation for the preparation of the volume is gratefully recognized.

It is hoped that this volume will not only meet the needs of all who need the will to many more aspects to come with time.

Robert W. Adams, Director

June 1976
Washington, D.C.

37



2. Fill in the gaps with the letters.

A_g_st, _pen, cl_s_, c_n, J_ne, J_l_, let_er,
oft_n, s_ld_m, m_ss.

10/

19/