TANDY COMPUTER

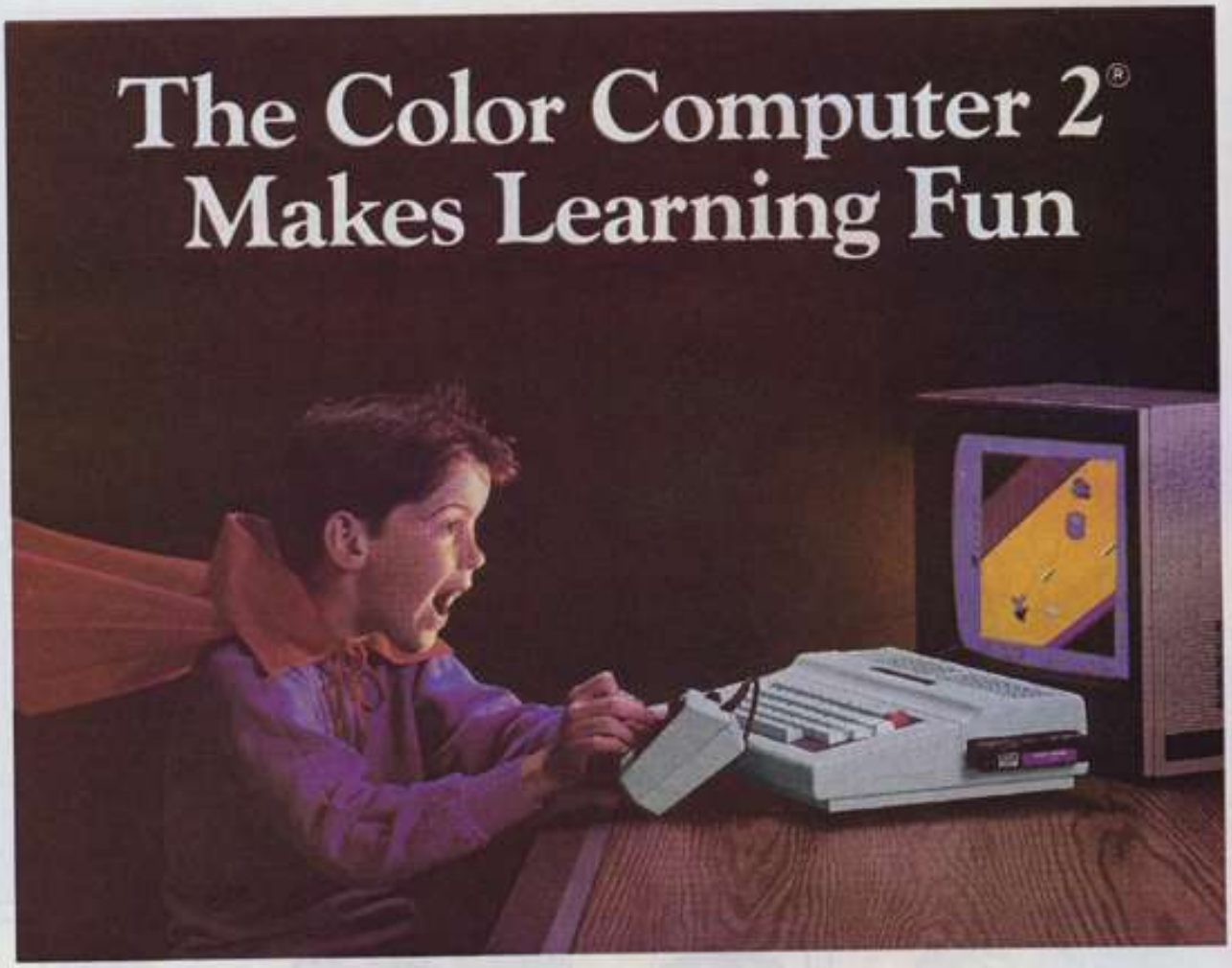
CAT. NO. 68-2020

whizkids™

ALEC AND SHANNA STARRING IN...

NEWS BY COMPUTER FOILS KIDNAPPERS!

The Color Computer 2® Makes Learning Fun



If you thought the Color Computer 2 was for fun—you were right! But the 64K Color Computer 2 (26-3127, $199.95) is also a valuable educational tool at home, or in the classroom.

Student's love learning their "three R's" with the Color Computer. Programs like *The Number Factory, Fraction Fever* and *Space Probe: Math,* teach children math skills. Government comes to life when learning with the Disney character, in *Goofy Covers Government.* Ecology becomes a fascinating game when learning with *Biosphere.* There are even programs for spelling, vocabulary improvement, typing and much more.

Parents can teach children about "real-world" situations and daily activities in a fun and interesting way. Kids can learn to design complete meal menus that are tasty and well balanced, with *Cookbook.* They can even learn to balance a home budget.

The Color Computer is also ideal for drawings, designs, charts, engineering diagrams, and even animation. Children need only use simple, one-line commands to make beautiful, detailed color graphics.

Give your children the head start they deserve. Come in and visit your local Radio Shack today!

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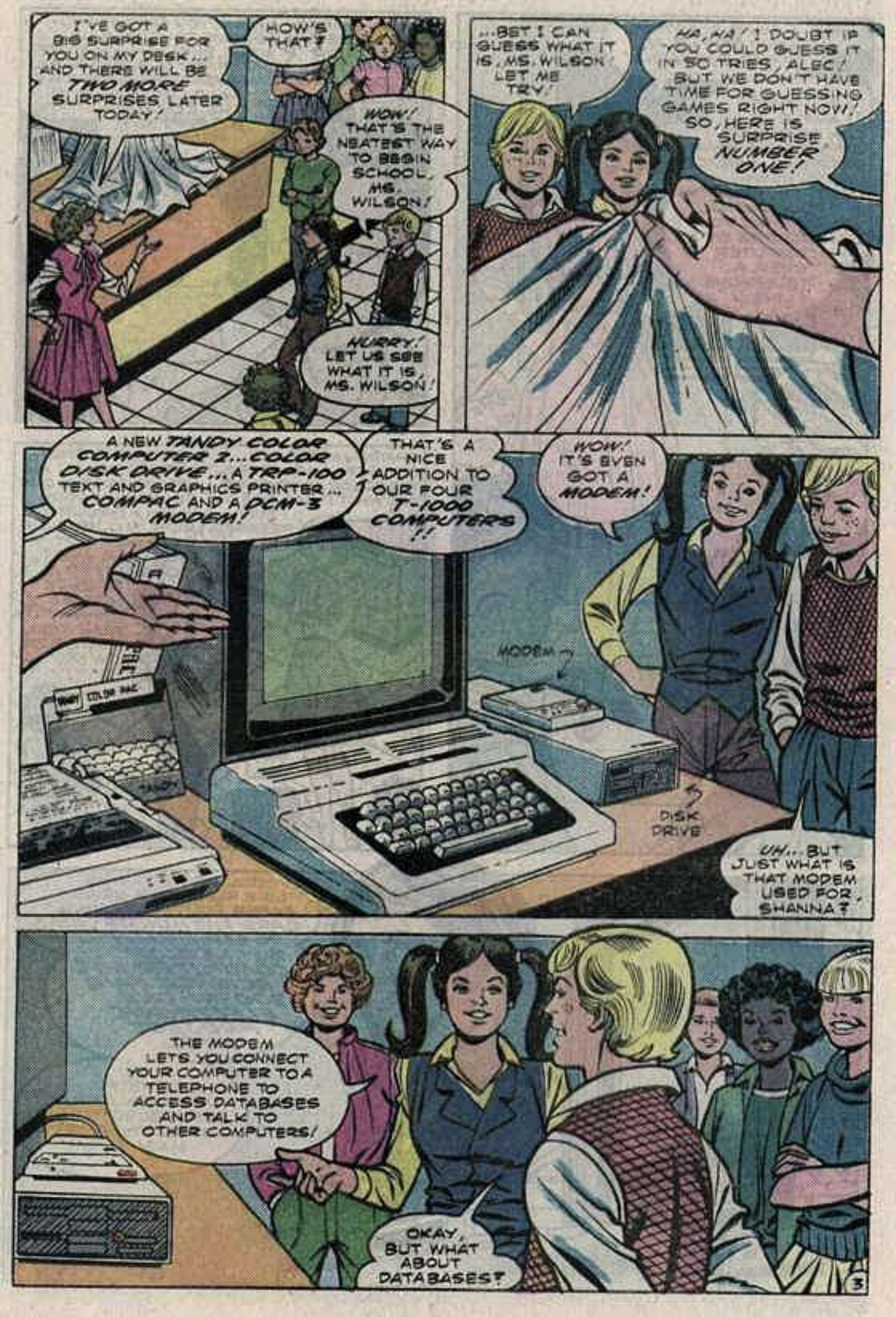
Space Probe: Math and Goofy Covers Government/TM Walt Disney.


YOU EVER DO A KIDNAP CAPER BEFORE, JACK?
YEAH, BUT I BOTCHED IT BECAUSE THE KID MUST HAVE BEEN TOLD NOT TO TALK TO STRANGE MEN!
THAT'S WHY THE CUSTOMER WANTED YOU WITH ME THIS TIME.
ALSO, "THE CUSTOMER" HAS A DEAL FOR US TO PICK UP PHONY I.D. EXHIBIT WORKER BADGES IN THE MORNING!
EXIT
PARKING
HEY, THAT'S GREAT! WE'LL BE ABLE TO CRUISE AROUND THE GROUNDS A LOT EASIER IF WE LOOK LIKE STATE FAIR EMPLOYEES!
BESIDES, MOST YOUNG KIDS THINK THEY CAN TRUST AN ADULT WEARING A BADGE!
YEAH! ESPECIALLY A FEMALE WEARING A BADGE!
MEANWHILE...
COASTAL CITY ELEMENTARY SCHOOL
GOOD MORNING, CLASS. I HOPE YOU ENJOYED YOUR SUMMER VACATION!
2


I'VE GOT A BIG SURPRISE FOR YOU ON MY DESK... AND THERE WILL BE TWO MORE SURPRISES LATER TODAY!
HOW'S THAT?
WOW! THAT'S THE NEATEST WAY TO BEGIN SCHOOL, MS. WILSON!
HURRY! LET US SEE WHAT IT IS, MS. WILSON!
...BET I CAN GUESS WHAT IT IS, MS. WILSON! LET ME TRY!
HA, HA! I DOUBT IF YOU COULD GUESS IT IN SO TRIES, ALEC! BUT WE DON'T HAVE TIME FOR GUESSING GAMES RIGHT NOW! SO, HERE IS SURPRISE NUMBER ONE!
A NEW TANDY COLOR COMPUTER 2... COLOR DISK DRIVE... A TRP-100 TEXT AND GRAPHICS PRINTER... COMPAC AND A PCM-3 MODEM!
THAT'S A NICE ADDITION TO OUR FOUR T-1000 COMPUTERS!!
WOW! IT'S EVEN GOT A MODEM!
MODEM
DISK DRIVE
UH... BUT JUST WHAT IS THAT MODEM USED FOR, SHANNA?
THE MODEM LETS YOU CONNECT YOUR COMPUTER TO A TELEPHONE TO ACCESS DATABASES AND TALK TO OTHER COMPUTERS!
OKAY, BUT WHAT ABOUT DATABASES?
3


A GOOD QUESTION, ALEC! GIVE US AN EXAMPLE, SHANNA!
WELL, FOR EXAMPLE, IT CAN BE ONE OF ON-LINE INFORMATION RETRIEVAL SERVICES HAVING NEWS, WEATHER, SPORTS AND EDUCATIONAL TOPICS THAT YOU CAN ACCESS BY COMPUTER OVER A TELEPHONE LINE!
WOW, SHANNA! WHAT ELSE CAN THE COLOR COMPUTER DO?
WELL, YOU CAN GET PROGRAMS TO HELP LEARN MATH, ENGLISH, SCIENCE AND OTHER SUBJECTS! YOU CAN EVEN TYPE HOMEWORK AND LETTERS WITH THE COLOR SCRIPTSIT PROGRAM!
SHANNA, WHERE DID YOU LEARN SO MUCH ABOUT THE COLOR COMPUTER? AND WHAT IT CAN DO? I'M IMPRESSED!!
IT'S A LONG STORY, MS. WILSON! IT ALL BEGAN DURING OUR SUMMER VACATION WHEN A GROUP OF KIDS IN OUR NEIGHBORHOOD GOT TOGETHER AND ORGANIZED A SCIENCE CLUB!
YEAH, TELL MS. WILSON HOW WE DID IT!
WELL, WE DID THINGS LIKE RUNNING A NEWSPAPER ROUTE, WASHING CARS AND MOWING LAWNS TO EARN MONEY TO BUY A COLOR COMPUTER AND A SCIENCE FAIR 200-IN-ONE ELECTRONIC PROJECT KIT...
...TO HELP US LEARN ABOUT BASIC ELECTRONIC CIRCUITS AND MAGNETISM!
4


PLEASE, MS. WILSON, LET SHANNA SHOW THE CLASS HOW COLOR SCRIPTSIT WORKS!
THAT WILL HAVE TO WAIT UNTIL LATER, ALEC... THAT IS...
...UNLESS THE CLASS WOULD RATHER MISS THE NEXT SURPRISE!
OH...NO, MS. WILSON! WE WANT THE SURPRISE!
YAYYY! WE WANT THE SURPRISE!!
IN THE MEANTIME...
STATE FAIR
THIS JOB IS GOING TO BE A SNAP! THREE GRAND APIECE FOR A COUPLE DAYS WORK!!
YEAH! BUT IT WON'T BE THAT EASY, JACK! THE PLACE IS GOING TO BE CRAWLING WITH COPS!
I WONDER WHO "THE CUSTOMER" IS SELLING THE KID TO THIS TIME!
NO TELLING, MAYBE A COUPLE WITHOUT A KID WHO'S JUST GOT TOGET ONE SOMEHOW!
YEAH! OR IT JUST MIGHT BE "THE CUSTOMER" HAS THIS ONE MARKED FOR ANOTHER COUNTRY!
IN WHICH CASE, WE'RE NOT GETTING NEAR THE MONEY WE OUGHT TO!
YOU KNOW, I'VE BEEN THINKING! WE'VE GOT OTHER CONTACTS...
SO WHY DON'T WE DO THIS JOB ON OUR OWN...AND MAKE 5 GRAND APIECE INSTEAD OF A SKIMPY 3 GRAND?
YEAH, WE MIGHT EVEN WORK A DEAL WITH THAT GUY WHO HANDLES FORGED ADOPTION PAPERS FOR PEOPLE! HE KNOWS ALL THE LAW LOOPHOLES...
THE GRIM PLOTTING OF THE TWO LOWLY CRIMINALS CONTINUES...
5


WHILE SOME DISTANCE AWAY...
PLEASE, MS. WILSON...
VERY WELL... THE SURPRISE IS A PERSON YOU ALL KNOW AND ADMIRE...
TELL US YOUR SECOND SURPRISE!
KNOCK KNOCK!
...WHO'S HERE TO GIVE THE CLASS SOME VERY IMPORTANT ADVICE!
DETECTIVE SHAW!
GOOD MORNING, MS. WILSON, I'M DETECTIVE SHAW!
ROOM 312
DETECTIVE SHAW HAS SOME EXTREMELY IMPORTANT SAFETY TIPS TO TELL US THIS MORNING! ...SO BE VERY QUIET... AND LISTEN!
I'M GOING TO BEGIN BY REPEATING WHAT MS. WILSON SAID -- THE TIPS I'M GOING TO GIVE YOU ARE EXTREMELY IMPORTANT -- SO PLEASE LISTEN CLOSELY... ...BECAUSE I DON'T WANT ANY OF YOU TO EVER BECOME A MISSING CHILD OR A KIDNAP VICTIM!
NUMBER ONE... IF YOUR PARENTS GO OUT, MAKE SURE YOU KNOW WHERE THEY CAN BE REACHED!
TWO -- IF YOU'RE HOME ALONE, CHECK ALL DOORS AND GROUND FLOOR WINDOWS TO BE SURE THEY'RE LOCKED!
THREE -- IF SOMEONE COMES TO DELIVER ANYTHING, TELL THEM TO LEAVE WHATEVER IT IS BESIDE THE DOOR, OR WITH A NEXT DOOR NEIGHBOR!
NEVER, NEVER OPEN THE DOOR FOR PEOPLE YOU DON'T KNOW!


BEWARE OF A STRANGER THAT SAYS, "YOUR PARENTS SENT ME TO PICK YOU UP!" IT MIGHT BE A LIE! DO DON'T OPEN THE DOOR ...OR GET INTO A CAR! DO NOT WALK HOME BY YOURSELF IN THE LATE EVENING OR AT NIGHT! DO NOT GO TO A PLAYGROUND BY YOURSELF--GO WITH A GROUP OF KIDS!
USE YOUR HEAD! NEVER GO NEAR A CAR BEING DRIVEN BY SOMEONE YOU DON'T KNOW!
ALSO, IF YOU GO OUT AT NIGHT, DON'T USE PUBLIC TRANSPORTATION ALONE! MEMORIZE YOUR AREA CODE AND PHONE NUMBER SO YOU CAN CALL HOME IN AN EMERGENCY!
IF YOU SEE A SUSPICIOUS PERSON AT SCHOOL, TELL YOUR PARENTS OR TEACHERS!
NEVER TALK TO STRANGERS, AND NEVER ACCEPT CANDY OR GIFTS FROM STRANGERS!!
ROOM 361
I KNOW YOU KIDS ARE SMART, BECAUSE MOST KIDS ARE--WHAT I WANT YOU TO DO IS KEEP YOUR GUARD UP... BECAUSE A SMART KID IS AN ALERT KID... AND A SAFE KID!
THERE'S SOMETHING ELSE I'D LIKE TO TOUCH ON...
RUNNING AWAY FROM HOME!
LET'S GET IT STRAIGHT, RUNNING AWAY FROM HOME IS DUMB! YEAH, I KNOW ANY KID CAN HAVE TROUBLE AT HOME, OR AT SCHOOL, OR WHATEVER--AND GET TO THINKING THAT RUNNING AWAY FROM HOME SEEMS LIKE THE ONLY WAY OUT.
THAT'S THE WORST THING YOU COULD DO!
RUNNING AWAY FROM HOME ISN'T SOME GREAT NEW ADVENTURE--IT'S FINDING OUT YOU'VE SPENT ALL YOUR MONEY AND YOU'RE HUNGRY--NO PLACE TO SLEEP--TOTAL LONELINESS--NOT KNOWING WHERE TO TURN. GETTING MIXED UP WITH THE WRONG CROWD AND GETTING HOOKED ON DRUGS... THAT'S NOT COOL!
7

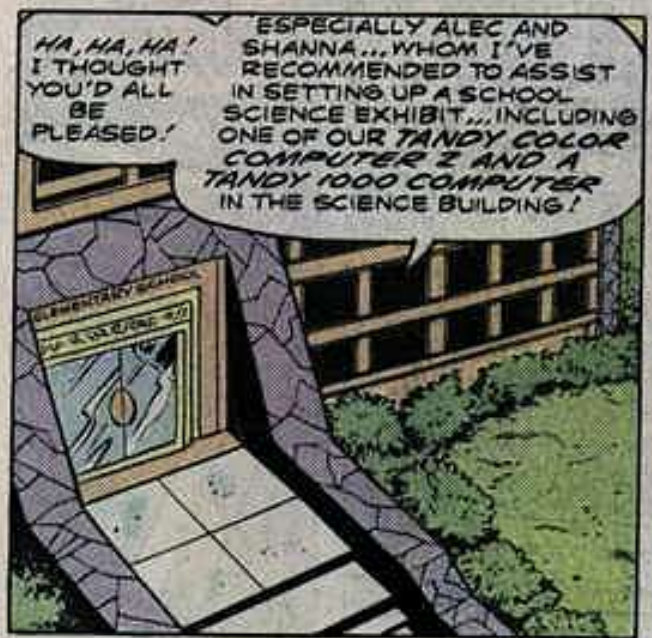

NOW LET ME ASK YOU, CLASS -- WHAT WOULD YOU SAY TO SOMEONE WHO WAS THINKING OF RUNNING AWAY FROM HOME?
DON'T DO IT!!
THAT'S COOL! JUST WHAT I EXPECTED TO HEAR -- BUT WHAT I DIDN'T EXPECT TO HEAR WAS...
...YOUR TANDY POCKET PAGER BEEPING !!!
BEEP BEEP BEEP
YOU'VE GOT IT, ALEC! MY PRECINCT USES IT WHEN THEY WANT ME TO CALL HEADQUARTERS !!
THE STUDENTS ALWAYS ENJOY YOUR VISITS, DETECTIVE SHAW!
THANK YOU, MS. WILSON! AND THANKS TO EVERYONE FOR YOUR ATTENTION!
AT THE SAME MOMENT, DETECTIVE SHAW LEAVES THE SCHOOL AND ENTERS HIS VEHICLE, TWO SHADOWY FIGURES EMERGE FROM THEIRS... AND WALK QUICKLY TOWARDS A PRINTING SHOP.
PRINTING
PRINTIN
ONCE INSIDE...
"THE CUSTOMER" SENT US! WE'RE SUPPOSED TO PICK UP --
TWO PHONY STATE FAIR WORKER I.D. BADGES! I HAVE THEM ALL MADE UP FOR YOU!
8


HMM! YOU DO NICE WORK, OLD MAN! HOW ARE YOU AT PRINTING PHONY ADOPTION PAPERS?
I ONLY DO WORK FOR "THE CUSTOMER." NOW CLEAR ON OUTTA HERE!


NOW, WE'VE GOT TO FINALIZE OUR PLAN FOR THE GRAB AT THE FAIR AND WHERE TO HIDE OUT 'TIL THE SALE!
WHY DON'T YOU ALSO CALL THAT LEGAL EAGLE YOU KNOW RIGHT AWAY... ...AND GET THAT ADOPTION SALE IN THE WORKS!

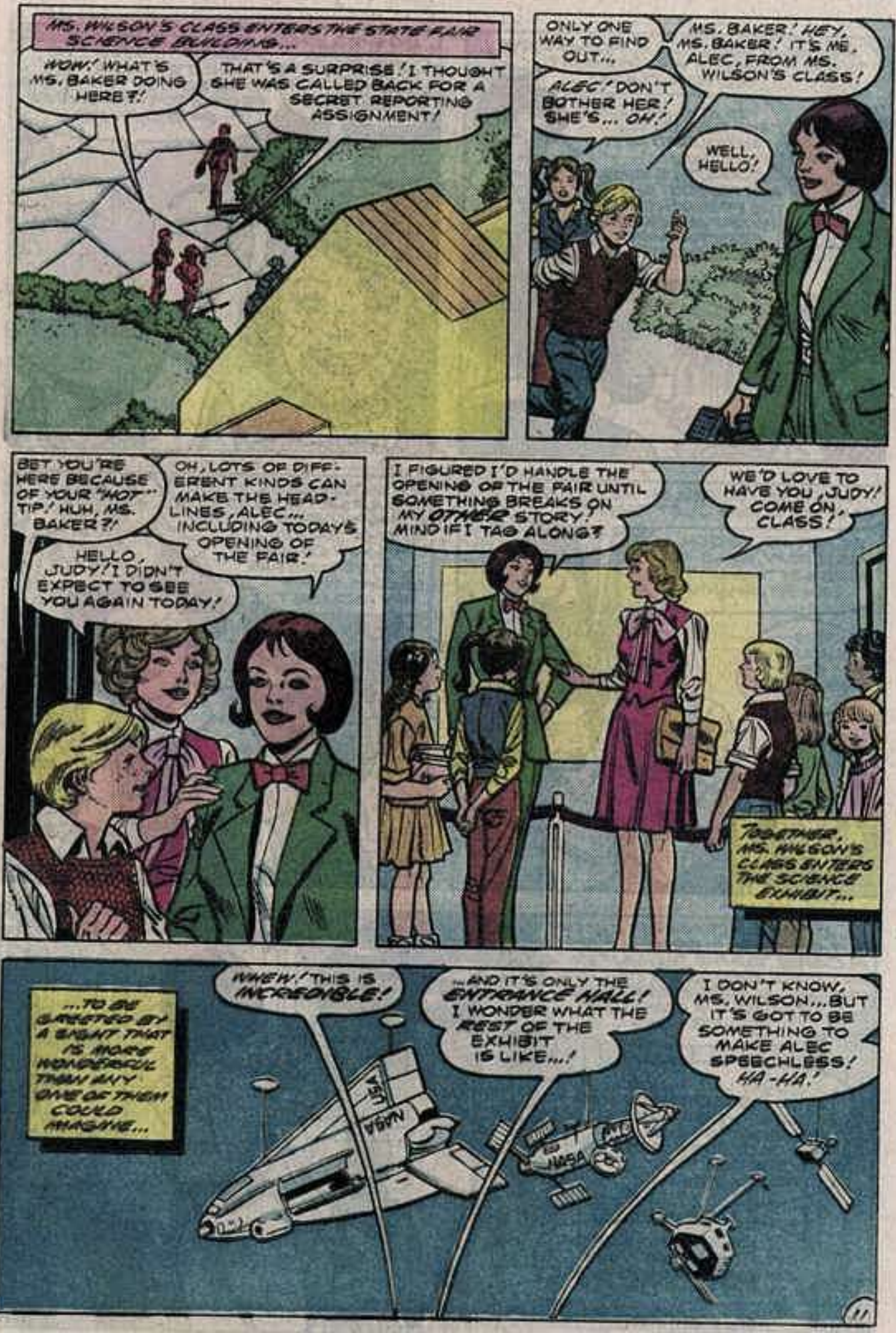

BACK AT THE COASTAL CITY ELEMENTARY SCHOOL, FOLLOWING DETECTIVE SHAW'S DEPARTURE...
PLEASE, MS. WILSON ...
TELL US YOUR THIRD SURPRISE!


ALL RIGHT... I'VE KEPT YOU IN SUSPENSE LONG ENOUGH...
WHAT WOULD YOU SAY TO A FIELD TRIP TO THE STATE FAIR, DAY AFTER TOMORROW?!
YOWIE!
SUPER !!
FANTASTIC !!


HA, HA, HA! I THOUGHT YOU'D ALL BE PLEASED!
ESPECIALLY ALEC AND SHANNA... WHOM I'VE RECOMMENDED TO ASSIST IN SETTING UP A SCHOOL SCIENCE EXHIBIT... INCLUDING ONE OF OUR TANDY COLOR COMPUTER 2 AND A TANDY 1000 COMPUTER IN THE SCIENCE BUILDING!
ELEMENTARY SCHOOL


OF COURSE, THAT MEANS YOU TWO WILL HAVE TO GET TO THE FAIR EARLY IN THE MORNING... READY TO WORK!
WOW!
WILL WE!


BRIGHT AND EARLY THE FOLLOWING MORNING, SHANNA AND ALEC ARRIVE AT THE SCIENCE BUILDING!
HALL of SCIENCE
WOW!
THIS IS GOING TO BE FUN!
ELEMENTARY SCHOOL SCIENCE DISPLAYS
GOOD MORNING! I'M MS. FENTON, SCIENCE TOUR GUIDE FOR THE FAIR!
GOOD MORNING, I'M SHANNA!
GOOD MORNING, I'M ALEC!
COASTAL CITY
SHANNA, I UNDERSTAND THAT YOU AND ALEC ARE GOING TO ALSO DEMONSTRATE YOUR SCHOOL'S COMPUTERS!
THAT'S RIGHT, MS. FENTON, AND WE HOPE THAT OUR SCHOOL WINS A BLUE RIBBON!
TANDY 1000
YOU AND ALEC SOUND LIKE REAL ACHIEVERS, AND THAT'S GREAT, SHANNA!
IF WE STUDY HARD NOW, WE'LL BE ABLE TO GET BETTER JOBS LATER!
THE NEXT MORNING... EXCITEMENT IN MS. WILSON'S CLASS.
GOOD MORNING! ARE YOU ALL READY FOR A TRIP TO THE FAIR?
WE'RE SUPER READY!
YOWIE!
LET'S GO!
OKAY, STUDENTS, TAKE YOUR SEATS AND BUCKLE UP FOR SAFETY!
WE'RE HERE, ALREADY!
10

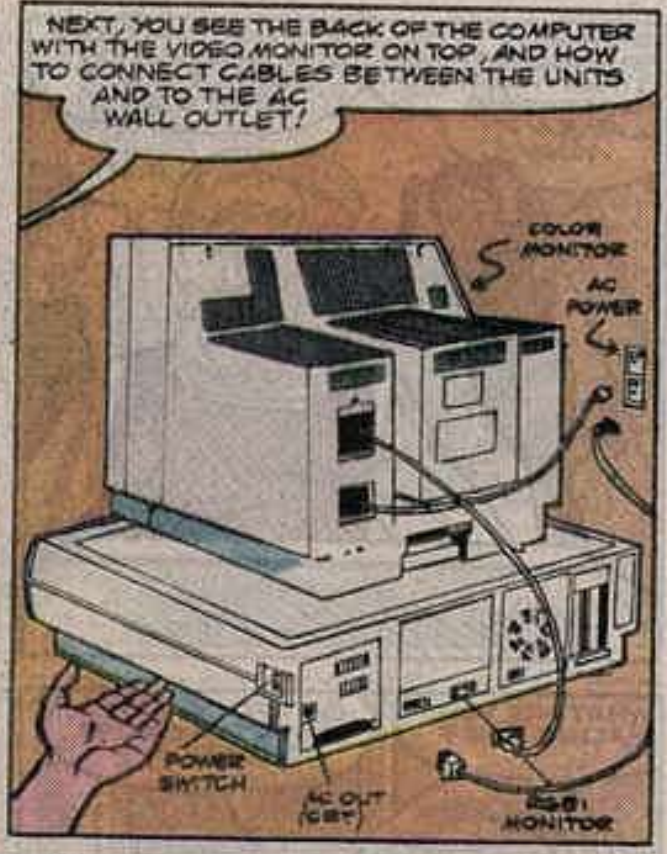

MS. WILSON'S CLASS ENTERS THE STATE FAIR SCIENCE BUILDING...
WOW! WHAT'S MS. BAKER DOING HERE?!
THAT'S A SURPRISE! I THOUGHT SHE WAS CALLED BACK FOR A SECRET REPORTING ASSIGNMENT!
ONLY ONE WAY TO FIND OUT...
MS. BAKER! HEY, MS. BAKER! IT'S ME, ALEC, FROM MS. WILSON'S CLASS!
ALEC! DON'T BOTHER HER! SHE'S... OH!
WELL, HELLO!
BET YOU'RE HERE BECAUSE OF YOUR "HOT" TIP! HUH, MS. BAKER?!
OH, LOTS OF DIFFERENT KINDS CAN MAKE THE HEADLINES, ALEC... INCLUDING TODAY'S OPENING OF THE FAIR!
HELLO, JUDY! I DIDN'T EXPECT TO SEE YOU AGAIN TODAY!
I FIGURED I'D HANDLE THE OPENING OF THE FAIR UNTIL SOMETHING BREAKS ON MY OTHER STORY! MIND IF I TAG ALONG?
WE'D LOVE TO HAVE YOU, JUDY! COME ON, CLASS!
TOGETHER, MS. WILSON'S CLASS ENTERS THE SCIENCE EXHIBIT...
...TO BE GREETED BY A SIGHT THAT IS MORE WONDERFUL THAN ANY ONE OF THEM COULD IMAGINE...
WHEW! THIS IS INCREDIBLE!
...AND IT'S ONLY THE ENTRANCE HALL! I WONDER WHAT THE REST OF THE EXHIBIT IS LIKE...!
I DON'T KNOW, MS. WILSON... BUT IT'S GOT TO BE SOMETHING TO MAKE ALEC SPEECHLESS! HA-HA!
NASA
11


AHH, MS. WILSON! IT'S A PLEASURE TO SEE YOU AGAIN! AND THIS MUST BE YOUR CLASS!
YES, IT IS, MS. FENTON, AND THEY'RE ALL ANXIOUS TO MEET YOU! CLASS, THIS IS MS. ANN FENTON! SHE'S THE PRESIDENT OF THE UNITED INDUSTRIAL ELECTRONIC COMPANY!
NASA
...AND SHE'S KINDLY VOLUNTEERED TO BE OUR GUIDE THIS AFTERNOON!
YES, MY COMPANY'S 100% BEHIND THIS FAIR! WE THINK IT'S A GREAT WAY TO INTRODUCE YOU YOUNG PEOPLE TO THE WONDER OF SCIENCE...
...AND IF YOU'LL FOLLOW ME, I'LL GET STARTED DOING JUST THAT!
WE MET MS. FENTON YESTERDAY, WHILE WE WERE SETTING UP THE EXHIBIT, SHANNA!
THIS SHOULD BE EXCITING!
MS. WILSON TELLS ME YOU ARE ALREADY FAMILIAR WITH COMPUTERS! BUT HOW MANY OF YOU REALIZE JUST HOW COMMON COMPUTER USE HAS BECOME IN THIS DAY AND AGE?
WITHOUT KNOWING IT, WE USE COMPUTERS EVERY DAY!
...AT THE SUPERMARKET CHECK-OUT COUNTER, IN BANKS... EVEN IN CARS TO MAKE THEM SAFER AND MORE EFFICIENT!... AND ONE DAY, ALMOST EVERYONE WILL HAVE A COMPUTER IN THEIR HOME...
...JUST LIKE ALMOST EVERY BUSINESS NOW USES THEM... FOR EVERYTHING FROM FILING TO INVENTORY CONTROL TO ACCOUNTING...
TO THE RUNNING OF THE VERY PRODUCTION LINES THEMSELVES! THAT'S WHAT THIS IS ALL ABOUT, CLASS... THE HALL OF COMPUTERS!
12


IT WASN'T ALWAYS THIS WAY, THOUGH! IN FACT, IT WOULD HAVE BEEN IMPOSSIBLE WITH THE FIRST MODELS OF COMPUTERS, LIKE THIS ONE...
THE WORLD'S VERY FIRST ALL-ELECTRONIC COMPUTER, DEVELOPED IN THE UNITED STATES AND COMPLETED IN THE FALL OF 1945! IT WAS SO BIG, IT TOOK UP A 30X50 FOOT ROOM!
GEE! AND MY MODEL 100'S SO MUCH SMALLER!
...AND MUCH MORE ADVANCED, TOO! THIS SUPER BRAIN WEIGHED 30 TONS AND CONTAINED 18,000 VACUUM TUBES, 70,000 RESISTORS, 10,000 CAPACITORS AND 6000 SWITCHES...
YET, THE TANDY MODEL 2OO IS MUCH SMARTER... AND IT CAN BE CARRIED IN A BRIEFCASE!
BUT THE EARLY-DAY COMPUTERS HAD TO BE BIG TO HOUSE THESE OLD FASHIONED RADIO TUBES! THEN, IN 1948, A DISCOVERY WAS MADE THAT WAS TO REVOLUTIONIZE THE ELECTRONICS INDUSTRY AND CHANGE THE WORLD...
WILLIAM SHOCKLEY
WALTER BRATTAIN
JOHN BARDEEN
...THE TRANSISTOR! WE OWE THIS TREMENDOUS DISCOVERY TO THE WORK OF THREE AMERICAN SCIENTISTS...
...WILLIAM SHOCKLEY... WALTER BRATTAIN... JOHN BARDEEN!
THE THREE MEN WERE JOINTLY AWARDED THE NOBEL PRIZE IN PHYSICS FOR THEIR WORK AT BELL LABORATORIES...
...AND THE AGE OF MICRO-ELECTRONICS WAS USHERED IN! COMPUTER CAPABILITY INCREASED DESPITE USE OF SUCH TINY CIRCUITS!
TODAY WE HAVE THE SILICON CHIP... THOUSANDS OF MICROSCOPIC CIRCUITS ON A PIECE OF SILICON SMALL ENOUGH TO FIT ON THE HEAD OF A PIN!
NEXT WE GO TO THE ELEMENTARY SCHOOL'S SCIENCE EXHIBIT!
13


HERE'S WHERE WE DROP OFF SHANNA AND ALEC AT THE METRO CITY ELEMENTARY SCHOOL'S COMPUTER EXHIBIT!
...WHERE THEY ARE GOING TO SHOW HOW TO SET UP THE COMPUTER AND DO WORD PROCESSING DURING THE STATE FAIR!
I SURE HOPE WE WIN A BLUE RIBBON LIKE WE DID LAST YEAR!
IT'S A CINCH! ALEC AND SHANNA ARE THE BEST!
THEY LEARNED A LOT ABOUT COMPUTING FROM THEIR SUMMER SCIENCE CLUB PRACTICE!
WELL, STUDENTS, HERE WE ARE!
...AND NOW WE'LL LET ALEC AND SHANNA SHOW US HOW TO DO WORD-PROCESSING ON A MODEL 1000!
SUPER!
HURRAY, SHANNA!
ACOUSTIC COUPLER
FIRST ALEC WILL SHOW YOU HOW TO SET UP A T-1000!
...THINK I'LL RUN DOWN TO THE VENDING MACHINE IN THE LOBBY AND PICK UP A DRINK WHILE ALEC TALKS!
MODEM
14


PLEASE WATCH THIS CHART WHILE I POINT OUT DIFFERENT PARTS AND CABLE CONNECTIONS OF THE 1000...


NEXT, YOU SEE THE BACK OF THE COMPUTER WITH THE VIDEO MONITOR ON TOP, AND HOW TO CONNECT CABLES BETWEEN THE UNITS AND TO THE AC WALL OUTLET!
COLOR MONITOR
AC POWER
POWER SWITCH
AC OUT (SET)
RGB MONITOR


HERE YOU'LL SEE THE COMPUTER AND KEYBOARD!
JOYSTICK LEFT/FRONT
RESET SWITCH
KEYBOARD CONNECTION
POWER SWITCH
DRIVE LATCH B
DRIVE LATCH A
DRIVE READY LIGHT


IN THE MEANTIME...
THAT MAN... I'VE SEEN HIM OR A PICTURE OF HIM SOMEWHERE... MAYBE A CRIME NEWS STORY OR SOMETHING!
...BETTER RUSH BACK TO THE EXHIBIT BEFORE ALEC GETS THROUGH WITH HIS PART!
15


OH, ALEC! I'VE GOT TO DO SOMETHING OTHER THAN WORD-PROCESSING ...RIGHT NOW!
I'VE GOT TO ACCESS THE INFORMATION SERVICE FOR A NEWS STORY!
HUH?!


YOU MAKE IT SOUND LIKE AN EMERGENCY, OR SOMETHING!
IT MAY JUST BE WORSE THAN THAT!


WHAT ARE YOU DIALING FOR?
GOT TO GET THIS COMPUTER ONLINE FAST!


SHANNA, WILL YOU TELL ME WHAT'S GOING ON?
NO TIME FOR THAT... I'VE GOT TO HURRY!


NOW TO TYPE IN ANY SUBSCRIPTION ACCOUNT NUMBER AND PASSWORD!
THIS IS WILD!
THIS MUST BE SOMETHING FOR MS. BAKER!


SORRY, MS. FENTON! SHANNA HAS TO MAKE AN EMERGENCY INFORMATION ACCESS ON THE COMPUTER!
OH! IN THAT CASE, WE'D BETTER MOVE ON, AND CHECK BACK LATER!
YES, LATER!!
16


DID I HEAR THE WORD "EMERGENCY"?
YES, MS. BAKER ...
I'M SCANNING METRO CITY NEWS STORIES FOR THE PAST MONTH ...
AH, HA! HERE IT IS!


HERE IS WHAT, SHANNA?
THAT MAN I SAW A WHILE AGO IS NONE OTHER THAN "SCARFACE" JACK WILLIAMS, WHO ATTEMPTED A CHILD KIDNAPPING...
...AND GOT AWAY FROM THE POLICE!
WOW!


I'D BETTER USE MY RS CELLULAR PHONE TO CALL THE STATE FAIR OFFICE AND HAVE THEM LOCATE DETECTIVE SHAW AND ASK HIM TO REPORT TO THIS EXHIBIT RIGHT AWAY!


MS. BAKER, HOW DO YOU KNOW DETECTIVE SHAW IS ON THE FAIR GROUNDS TODAY?
I WAS TALKING WITH HIM A FEW MINUTES AGO!
OH, MS. BAKER, PLEASE TELL HIM TO HURRY!


...AND TELL HIM IT'S URGENT!
GEE, MS. BAKER! THAT'S A SWELL CELLULAR PHONE! WE HAVEN'T SEEN YOU WITH IT BEFORE!
I HOPE THE STATE FAIR SWITCHBOARD OPERATOR CAN LOCATE DETECTIVE SHAW!


JUST GOT YOUR MESSAGE, MS. BAKER! WHAT'S UP?!
SHANNA THINKS SHE SPOTTED "SCARFACE" JACK WILLIAMS ABOUT TEN MINUTES AGO... IN THE LOBBY OF THIS BUILDING!
I'M SURE OF IT DETECTIVE SHAW! HE HAD A SCAR ACROSS THE SIDE OF HIS FACE!


IF THAT'S JACK WILLIAMS AND HE'S HERE AT THE FAIR... WE CAN BE SURE WHAT HE PLANS TO DO! I'LL USE MY WALKIE-TALKIE RADIO TO ALERT THE OTHER DETECTIVES AT THE STATE FAIR!


ANOTHER THING, I'D BETTER CALL HEADQUARTERS AND HAVE THEM PUT OUT AN APB ON WILLIAMS IN CASE HE ESCAPES US HERE!
MAY I USE YOUR RS CELLULAR PHONE, MS. BAKER?
SURE! BE MY GUEST!


...YES, AN APB ON "SCARFACE" JACK WILLIAMS!


THANKS FOR THE USE OF THE PHONE! IT'S QUITE A CONVENIENCE... ONE I COULD USE MYSELF!
I LOVE IT! IT'S GREAT FOR CALLING IN NEWS STORIES... AND IT ALLOWS MY NEWSPAPER TO GET IN TOUCH WITH ME RIGHT AWAY IN CASE OF AN EMERGENCY!


SHANNA, I NEED YOU TO COME WITH ME TO TAKE A FAST TOUR OF THE FAIR BUILDINGS AND GROUNDS... TO SEE IF YOU CAN SPOT THAT WILLIAMS!
ALEC, THINK YOU COULD PUT A "BE BACK LATER" SIGN ON YOUR SCHOOL'S EXHIBIT AND COME WITH US, TOO?
SURE, DETECTIVE SHAW!
10


SHANNA, DO YOU REMEMBER WHAT KIND OF CLOTHES WILLIAMS WAS WEARING... OR ANYTHING ELSE THAT MIGHT HELP IDENTIFY HIM?
WELL, HE WAS WEARING A TAN SHIRT AND PANTS, AND IT LOOKED LIKE HE HAD SOME KIND OF BADGE ON HIS SHIRT!
HOW ABOUT THE WOMAN YOU SAW WITH WILLIAMS... WHAT DID SHE LOOK LIKE?
SHE WAS WEARING A DARK BLOUSE AND PLAID SKIRT AND HAD A KIND OF WILD-LOOKING HAIRDO!
HEY, DETECTIVE SHAW! THAT DELIVERY VAN HAD A MAN AND WOMAN IN IT...
...AND BOTH OF THEM SEEM TO BE SCANNING THE CROWD OF PEOPLE!
LIKE THEY WERE LOOKING FOR SOMEONE, EH?! HMMM... WE'D BETTER CHECK THEM OUT!!
LOOK, DETECTIVE SHAW... THEY'VE STOPPED... AND THE WOMAN'S GETTING OUT!
WE'D BETTER HURRY, DETECTIVE SHAW!
LOOK! SHE'S BENDING OVER AND TALKING TO THAT LITTLE GIRL! SHE LOOKS LIKE THAT WOMAN WITH WILLIAMS!
THAT'S BAD NEWS! I'LL SIGNAL THE OTHER DETECTIVES TO CLOSE IN!
19

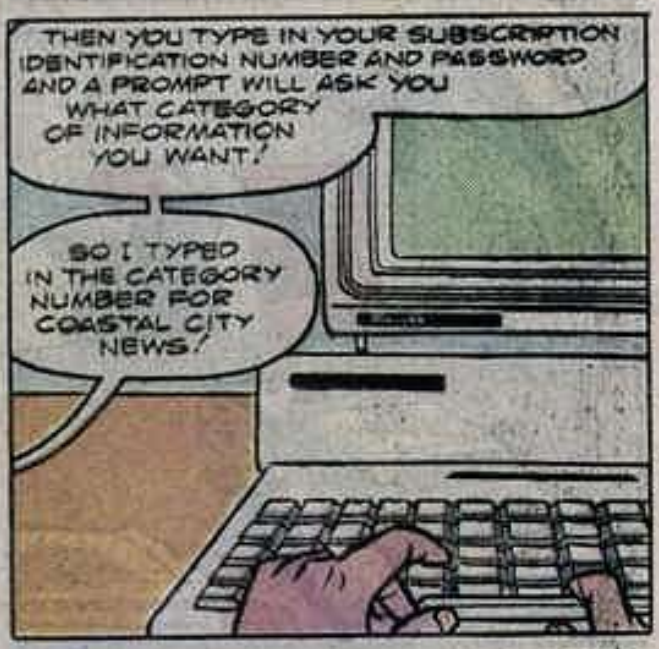

STOP! PUT THE KID DOWN!
WHAT THE...?! THOSE GUYS MUST BE PLAIN CLOTHES COPS!
I'D BETTER GET OUT OF HERE FAST!
WAIT, JACK! DON'T LEAVE ME!
SORRY, VINITA BABY!
...AND HE'S HEADED YOUR WAY IN A STATE FAIR DELIVERY VAN!
THAT DIRTY BUM! HE'S GOING TO PAY FOR THIS!
POLICE
LET'S MOVE IT!
WOW! WHAT EXCITEMENT!
YEAH! I'M GLAD THE KID IS SAFE...AND NOW WE'VE GOT TO GET BACK TO OUR EXHIBIT!
POLICE
20


THERE'S THE VAN WEAVING THROUGH THE CROWD... KEEP IT IN SIGHT... BUT BE CAREFUL!
RIGHT! DON'T WANT TO HIT SOMEONE!
POLICE
CRASH!
GIVE UP, WILLIAMS!
YOU'LL NEVER GET ME ALIVE!
WELL, "SCARFACE" JACK, LOOKS LIKE YOU'LL BE OUT OF CIRCULATION FOR A LONG TIME!


WELL, YOU TWO WILL BE ON THE FRONT PAGE TOMORROW!
DETECTIVE SHAW GAVE ME ALL THE DETAILS... HOW YOU HELPED KEEP A LITTLE GIRL FROM BECOMING A LITTLE "MISSING GIRL!"
WOW!


WE'RE BACK FOR THAT DEMONSTRATION!
YES, SHANNA! SHOW US HOW YOU GOT THAT EMERGENCY INFORMATION WITH THAT COMPUTER!


AFTER DIALING THE INFORMATION SERVICE, YOU PLACE THE PHONE ON THE COUSTIC COUPLER!


THEN YOU TYPE IN YOUR SUBSCRIPTION IDENTIFICATION NUMBER AND PASSWORD AND A PROMPT WILL ASK YOU WHAT CATEGORY OF INFORMATION YOU WANT!
SO I TYPED IN THE CATEGORY NUMBER FOR COASTAL CITY NEWS!


THEN, I SCANNED ALL OF THE MAIN NEWS STORIES FOR THE PAST MONTH UNTIL I CAME ACROSS THE ONE ABOUT "SCAR-FACE" JACK WILLIAMS ...WANTED FOR ATTEMPTED KIDNAPPING!
INCIDENTALLY, YOU CAN ALSO ACCESS AN INFORMATION SERVICE WITH YOUR COLOR COMPUTER 2! IT'S EASY WITH A PROGRAM PAK AND A MODEM!


ALSO, THERE ARE LOTS OF OTHER INFORMATION CATEGORIES LIKE MAGAZINE ARTICLES, SCIENCE ARTICLES, WEATHER, FLIGHT SCHEDULES, ENTERTAINMENT, NEWS AND MANY OTHERS... LIKE HAVING AN ELECTRONIC ENCYCLOPEDIA IN YOUR OWN SCHOOL OR HOME!


GOOD AFTERNOON! I'M DON DAVIS, CHAIRMAN OF THE COMMITTEE JUDGING SCHOOL COMPUTER SCIENCE DISPLAYS!
HELLO! I'M MS. WILSON! TEACHER AT COASTAL CITY ELEMENTARY SCHOOL!
HELLO, I'M MS. FENTON! YOUR SCIENCE TOUR GUIDE FOR THE STATE FAIR!
MS. WILSON, IT IS OUR PLEASURE TO PRESENT A BLUE RIBBON TO YOUR CLASS FOR THE BEST DEMONSTRATION OF THE USE OF INFORMATION BY COMPUTER TO HELP FIGHT CRIME!
YOU SEE, WE WERE MADE AWARE OF THE EXTRAORDINARY SKILL AND ALERTNESS OF YOUR STUDENTS SHANNA AND ALEC...
IN USING THEIR EXHIBIT COMPUTER TO ACCESS NEWS INFORMATION THAT PLAYED A MAJOR ROLE IN PREVENTING A LITTLE GIRL FROM BECOMING A MISSING CHILD!!"
MR. DAVIS, THIS IS SHANNA AND ALEC!
...NICE TO MEET YOU MR. DAVIS!
GLAD TO MEET YOU, SIR!
CONGRATULATIONS! KEEP UP THE GOOD WORK... AND CONTINUE TO INCREASE YOUR SKILLS! FOR IT WILL BE YOUR TURN SOMEDAY TO PUT YOUR SKILL TO WORK IN GOVERNMENT AND BUSINESS!
YAYYYY!!
HURRAH FOR SHANNA!
SUPER, ALEC!
WELL, IT'S TIME TO TAKE DOWN OUR EXHIBIT FOR THIS YEAR!
I'M KIND OF SORRY THE STATE FAIR IS OVER!
ME, TOO!
25


MS. BAKER... AND DETECTIVE SHAW!
WHAT ARE YOU TWO DOING BACK HERE?
WE'RE RUNNING A LITTLE LATE, BUT WE WANTED TO CONGRATULATE YOU AND ALEC FOR WINNING A BLUE RIBBON FOR YOUR SCHOOL'S COMPUTER EXHIBIT!
WE ALSO HAVE ANOTHER SURPRISE FOR YOU WHIZ KIDS!
WHAT?! THE EXCITEMENT IS GETTING TO ME!
WHAT HAPPENED, MS. BAKER?
THE MAYOR OF COASTAL CITY IS GOING TO INVITE YOU AND ALEC, ALONG WITH YOUR TEACHER, MS. WILSON, AND CLASSMATES TO ATTEND A SPECIAL CEREMONY DURING THE CITY COUNCIL MEETING NEXT WEEK...
...TO PRESENT A CERTIFICATE OF APPRECIATION TO YOU AND ALEC!
SOMEONE ELSE IS GOING TO RECEIVE A COMMENDATION!
WHO, MS. BAKER?
I KNOW WHO IT OUGHT TO BE!
ARE YOU READY?
READY!
YOUR GOOD FRIEND, DETECTIVE SHAW!
THAT'S THE BEST NEWS YET!
THANKS! JUST THE SAME, WE WERE ALL PULLING TOGETHER... THAT'S WHAT MAKES A WINNING EFFORT!!
WELL, WE BETTER GET GOING! SEE YOU ALL LATER!!
LATER!
TAKE CARE!
21


GOOD MORNING! HOW DID YOU LIKE THE FIELD TRIP TO THE STATE FAIR?
SUPER!
WINNING A BLUE RIBBON WAS COOL!
BEST OF ALL WAS WHAT SHANNA AND ALEC DID TO HELP SAVE THAT LITTLE GIRL FROM BEING KIDNAPPED!
RIGHT ON! IT SHOWS THAT WE'D BETTER REMEMBER WHAT DETECTIVE SHAW TOLD US THE OTHER DAY!
OH! THAT MUST BE OUR PRINCIPAL! HE SAID HE HAD SOMETHING SPECIAL TO TELL US!
KNOCK! KNOCK!
GOOD MORNING, MS. WILSON! GOOD MORNING, STUDENTS!
GOOD MORNING, MR. SCOTT!
GOOD MORNING!
MR. SCOTT HAS SOME GOOD NEWS FOR US, SO BE REAL QUIET!
FIRST, I WANT TO CONGRATULATE YOUR CLASS, MS. WILSON... AND ESPECIALLY SHANNA AND ALEC FOR THE EXCELLENT SHOWING OF THE SCHOOL'S COMPUTER EXHIBIT AT THE STATE FAIR THIS YEAR! SEVERAL MEMBERS OF THE SCHOOL BOARD WERE SO IMPRESSED, THEY ARE AUTHORIZING A SUBSCRIPTION TO AN INFORMATION SERVICE FOR OUR LIBRARY COMPUTER SECTION... TO MAKE AN "ELECTRONIC" ENCYCLOPEDIA AVAILABLE TO STUDENTS!
HURRAH FOR MR. SCOTT!
RIGHT ON!
THAT'S SO COOL!
25


A WEEK LATER AT THE REGULAR MEETING OF THE COASTAL CITY COUNCIL.
...AND NOW OUR NEXT ITEM ON THE AGENDA CONCERNS A SPECIAL RECOGNITION FOR THOSE INVOLVED IN PREVENTING A KIDNAPPING AT THE STATE FAIR RECENTLY!
WILL THE FOLLOWING PERSONS PLEASE COME FORWARD! SHANNA SMITH, ALEC JONES AND DETECTIVE ROBERT SHAW!
IT GIVES ME GREAT PLEASURE TO PRESENT THESE CONCERNED CITIZENSHIP AWARDS TO SHANNA...
THANK YOU, SIR!
...AND TO ALEC, FOR THEIR ALERTNESS AND SKILL WITH COMPUTER INFORMATION WHICH HELPED TO PREVENT A LITTLE GIRL AT THE FAIR FROM BECOMING A MISSING CHILD!
THANK YOU, SIR!
IT IS ALSO A PLEASURE, INDEED, TO PRESENT A CERTIFICATE OF MERIT TO DETECTIVE ROBERT SHAW, FOR APPREHENDING THE CRIMINALS, WHO ATTEMPTED THE KIDNAPPING, WITHOUT SERIOUS INJURY TO ANYONE!
HURRAH FOR THE TANDY COMPUTER WHIZ KIDS!
YAAA! HURRAH!
THANK YOU, MR. MAYOR!
THREE CHEERS FOR DETECTIVE SHAW!!
THE END

STUDENT'S GUIDE TO COMPUTER LANGUAGE

BACK-UP DISKETTE A "Safe Copy" made from the original diskette and kept in case of damage or destruction of data on the original diskette.

BASIC Beginner's All-purpose Symbolic Instruction Code, a widely-used programming language.

BINARY A numbering system using only two digits, 0 and 1

BIT The smallest unit a computer circuit can recognize.

BOOT UP To turn on a computer system (including all peripherals) and load an operating system or program.

BREAK To stop the execution of a program by pressing the key (BREAK) or by typing the word "STOP."

BYTE A combination of 8 consecutive binary digits

CASSETTE An information storage medium composed of magnetic tape on a spool enclosed in plastic case.

COMMAND A function the computer performs upon your instructions.

CONTROL That section of a computer which directs the activity of all other sections.

CURSOR A flashing, white box on the screen which marks the location of the next letter or numeral.

DATA The information processed by a computer.

DEFAULT An action or value taken by a program if you do not specify which is to be used.

DIRECTORY A listing of the contents stored on a disk

DISK A magnetic recording device for storage of data

EDIT To change existing information.

ENTER The key on a keyboard that is pressed to enter data into the computer

K or KILOBYTE The letter symbol for 1024 bytes

MEMORY The section of a computer used for storage of information (also called data).

MENU A list of questions, or prompts, the answers to which determine how the computer will execute an instruction.

PASSWORD A file security option of up to 8 alphanumeric characters

POWER UP To turn on the computer system (including all peripheral equipment)

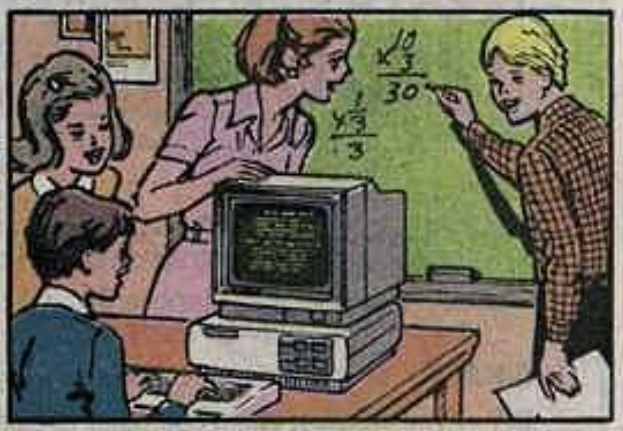
PROGRAM The instructions that tell a computer how to process and deliver its answer or information.

PROMPTS Questions displayed on the screen which enable you to complete necessary instruction to the computer.

SCRIPSIT A program used in word-processing.

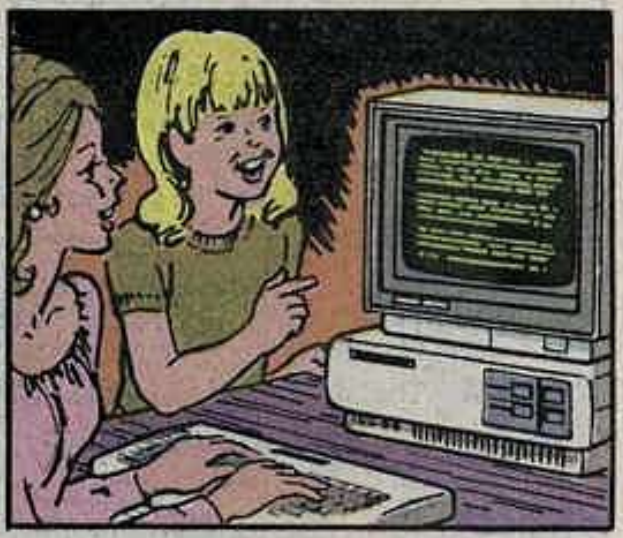
the computers!

NATIONWIDE, IN CROWDED AIR TERMINALS COMPUTERS ARE SPEEDING PROCESSING OF RESERVATIONS AND TICKETS



COMPUTERS LIKE THE **TANDY 1000** ARE BEING USED AS TEACHING AIDS TO BUILD SKILLS IN MATH AND SCIENCE...

IN REDUCING TIME AND PAPERWORK FOR SMALL BUSINESS OPERATIONS...



TO ACCESS INFORMATION SERVICES LIKE **COMPUSERVE**—AN ELECTRONIC ENCYCLOPEDIA AT YOUR FINGERTIPS. GREAT FOR HELPING WITH HOME STUDY ASSIGNMENTS!

COMPUTERS ALSO AID IN TODAY'S SCIENCE RESEARCH, METEOROLOGY (WEATHER FORECASTING) AND THEY CAN EVEN BE PROGRAMMED TO OPERATE MACHINES LIKE **ROBOTS**, USED IN MANY MANUFACTURING PLANTS.

TANDY bits & bytes of Computer History

TODAY, MICROCOMPUTERS (MEANING TINY IN SIZE) ARE RESHAPING OUR WAY OF LIFE. THE **COMPUTER AGE** IS TRULY HERE. BUT, IT REALLY BEGAN ALMOST **200** YEARS AGO!

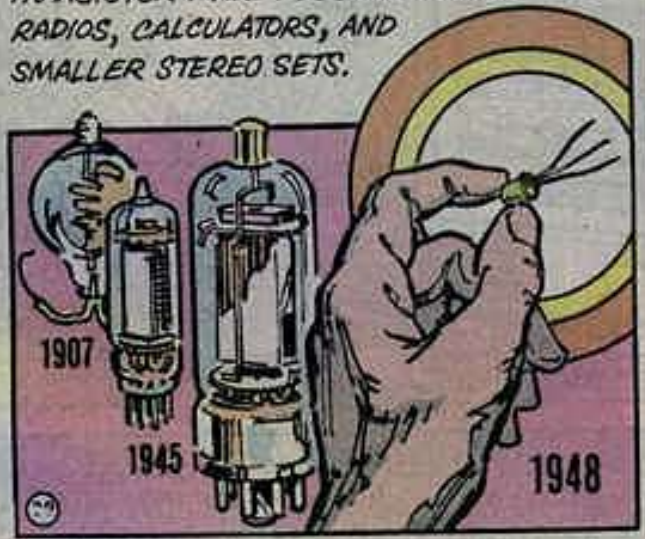
IN 1801, **JOSEPH MARIE JACQUARD**, CALLED THE "FATHER OF THE COMPUTER", WAS HONORED BY THE EXPOSITION IN PARIS FOR A WEAVING LOOM WHICH USED **PROGRAMMED, PUNCHED, CARDS** TO CONTROL THE WEAVING OF COMPLEX PATTERNS FROM THREAD

IN THE LATE 1940'S, SCIENTISTS MADE A REVOLUTIONARY DISCOVERY FOR RADIO CIRCUITS. WHAT WAS IT?

I KNOW! IT WAS THE **TRANSISTOR** IN 1948.

YES, THE NOBEL PRIZE IN PHYSICS WAS SPLIT BETWEEN THREE AMERICANS... FOR INVENTING THE TRANSISTOR: **JOHN BARDEEN, WILLIAM SHOCKLEY,** AND **WALTER BRATTAIN.**

THEIR RESEARCH WAS DONE AT WORLD FAMOUS BELL TELEPHONE LABS. MANY TIMES SMALLER THAN RADIO TUBES, THE TRANSISTOR MADE POSSIBLE POCKET RADIOS, CALCULATORS, AND SMALLER STEREO SETS.



NEXT CAME THE TINY **IC** (INTEGRATED CIRCUIT) USED IN TODAY'S RADIOS, STEREO HI-FI SETS, AND POWERFUL DESK-SIZE HOME AND BUSINESS COMPUTERS LIKE THE **TANDY 1000.**

COMPUTERS and ASTRONOMY...

THE WORLD'S FIRST ALL-ELECTRONIC COMPUTERS WERE MADE IN THE UNITED STATES AT THE END OF WORLD WAR II. THESE COMPUTERS CONTAINED **THOUSANDS** OF VACUUM (RADIO) TUBES, RESISTORS, CAPACITORS AND SWITCHES ——AND REQUIRED A **ROOM-SIZE** SPACE! THEY USHERED IN THE **COMPUTER AGE!**

ON THE LATE 1940'S, THE **SSEC** (SELECTIVE SEQUENCE ELECTRONIC CALCULATOR), WAS USED BY PIONEERING ASTRONOMER **WALTER J. ECKERT** AND ASSOCIATES TO COMPUTE A NEW **EPHEMERIS**—(CELESTIAL ALMANAC) FOR THE OUTER PLANETS JUPITER THROUGH PLUTO. IT REPORTEDLY TOOK **120** HOURS TO PERFORM ALL OF THE CALCULATIONS.*

THESE SAME CALCULATIONS WERE REPORTEDLY PERFORMED BY A **TRS-80 MODEL 1** 1979 DESK-TOP COMPUTER AND PRINTER IN LESS THAN **11** HOURS!

*QUOTED IN PART BY PERMISSION FROM APRIL 1984 SKY AND TELESCOPE MAGAZINE.

THE ASTRONOMICAL CALCULATIONS MADE BY THE 1979 **MODEL 1** COULD BE PERFORMED EVEN FASTER BY TODAY'S **TANDY 1000** MICROCOMPUTER ...RECOGNIZED FOR ITS POWER AND STORAGE CAPACITY IN BUSINESS AND EDUCATIONAL USE.

INCIDENTALLY, ESTIMATES SAY THAT IT WOULD HAVE TAKEN ONE PERSON ABOUT **80 YEARS** TO DO THE JOB—WITHOUT THE HELP OF A COMPUTER!

THE HISTORY OF COMPUTERS REALLY BEGAN COUNTLESS CENTURIES AGO BECAUSE OUR ANCESTORS HAD A NATURAL CURIOSITY ABOUT THINGS. EACH GENERATION EXPLORED, OBSERVED, DISCOVERED, INVENTED AND PASSED ALONG TO THE NEXT GENERATION THEIR CONTRIBUTION TO THE BODY OF KNOWLEDGE WE CALL **SCIENCE** ...AND TO A BETTER WAY OF LIFE WE CALL **FREEDOM**!

THAT'S WHY THE PILGRIMS CAME TO AMERICA IN 1620—SEARCHING FOR RELIGIOUS FREEDOM AND THE RIGHT TO GOVERNMENT BY THE PEOPLE.

THE **GOLDEN KEYS** THAT OPENED THE DOORS FOR THE SCIENCE EXPLORERS OF THE UNITED STATES OF AMERICA ...PEOPLE LIKE NIKOLA TESLA, SAMUEL MORSE, ALEXANDER BELL, THOMAS EDISON, JOSEPH HENRY, BENJAMIN FRANKLIN, ROYAL HOUSE, EDWIN ARMSTRONG, JOSEPH TYKOCINER, LEE DEFOREST; AND THE INVENTORS OF THE TRANSISTOR— JOHN BARDEEN, WALTER BRATTAIN, AND WILLIAM SHOCKLEY; AND MANY OTHER GREAT **SCIENCE EXPLORERS!**

...DEDICATED PEOPLE WHOSE YEARS OF STUDY AND COUNTLESS HOURS OF TEDIOUS RESEARCH BROUGHT US...

- ★ ALTERNATING CURRENT ELECTRICITY
- ★ TELEPHONE
- ★ RADIO
- ★ STEREO HI-FI
- ★ COLOR TELEVISION
- ★ POCKET CALCULATORS
- ★ VIDEO CASSETTE RECORDING
- ★ POWERFUL DESK-SIZE COMPUTERS
- ★ COMMUNICATION SATELLITES
- ★ MICROWAVE OVENS FOR COOKING
- ★ ELECTRONIC CONTROL AND GUIDANCE SYSTEMS FOR JETS & SHUTTLE SPACECRAFT

...MOST OF THESE GREAT INVENTIONS DEVELOPED WITHIN THE PAST CENTURY (100 YEARS)!

REMEMBER, THE GOLDEN KEYS OPEN ONLY THE DOOR TO ACHIEVEMENT. REMEMBER ALSO, ACHIEVEMENT IS NOT A GIFT... IT'S UP TO YOU TO DO IT YOURSELF!

...AND THAT'S WHY YOU MUST STUDY HARD ...LEARN ALL YOU CAN ABOUT MATH, PHYSICS, ELECTRICITY...

...CHEMISTRY AND OTHER SCIENCES... SO THAT YOU CAN GAIN THE KNOWLEDGE IT TAKES TO BE A SCIENCE EXPLORER. IT'S NOT EASY, BUT YOU CAN DO IT!

YEAAAY! WE CAN DO IT!

IT WILL BE YOUR TURN TO MAKE A CONTRIBUTION TO SCIENTIFIC KNOWLEDGE THAT CONTINUES PROGRESS WITHOUT ENDANGERING OUR HOME BASE...SPACESHIP EARTH —A CONTRIBUTION THAT ALSO BENEFITS PEOPLE OF OTHER NATIONS.

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