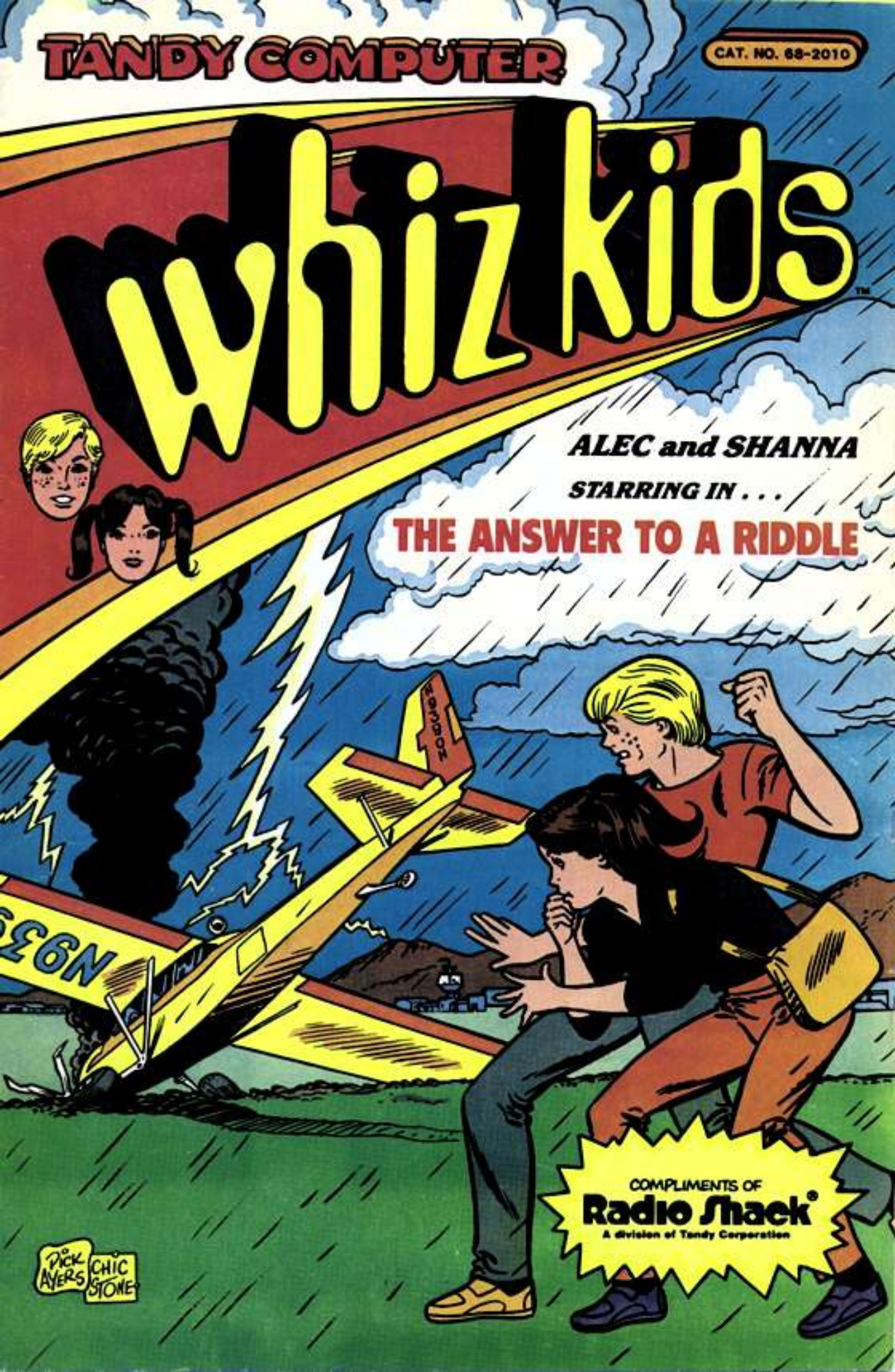
TANDY COMPUTER
CAT. NO. 68-2010
whiz kids
ALEC and SHANNA
STARRING IN . . .
THE ANSWER TO A RIDDLE
COMPLIMENTS OF
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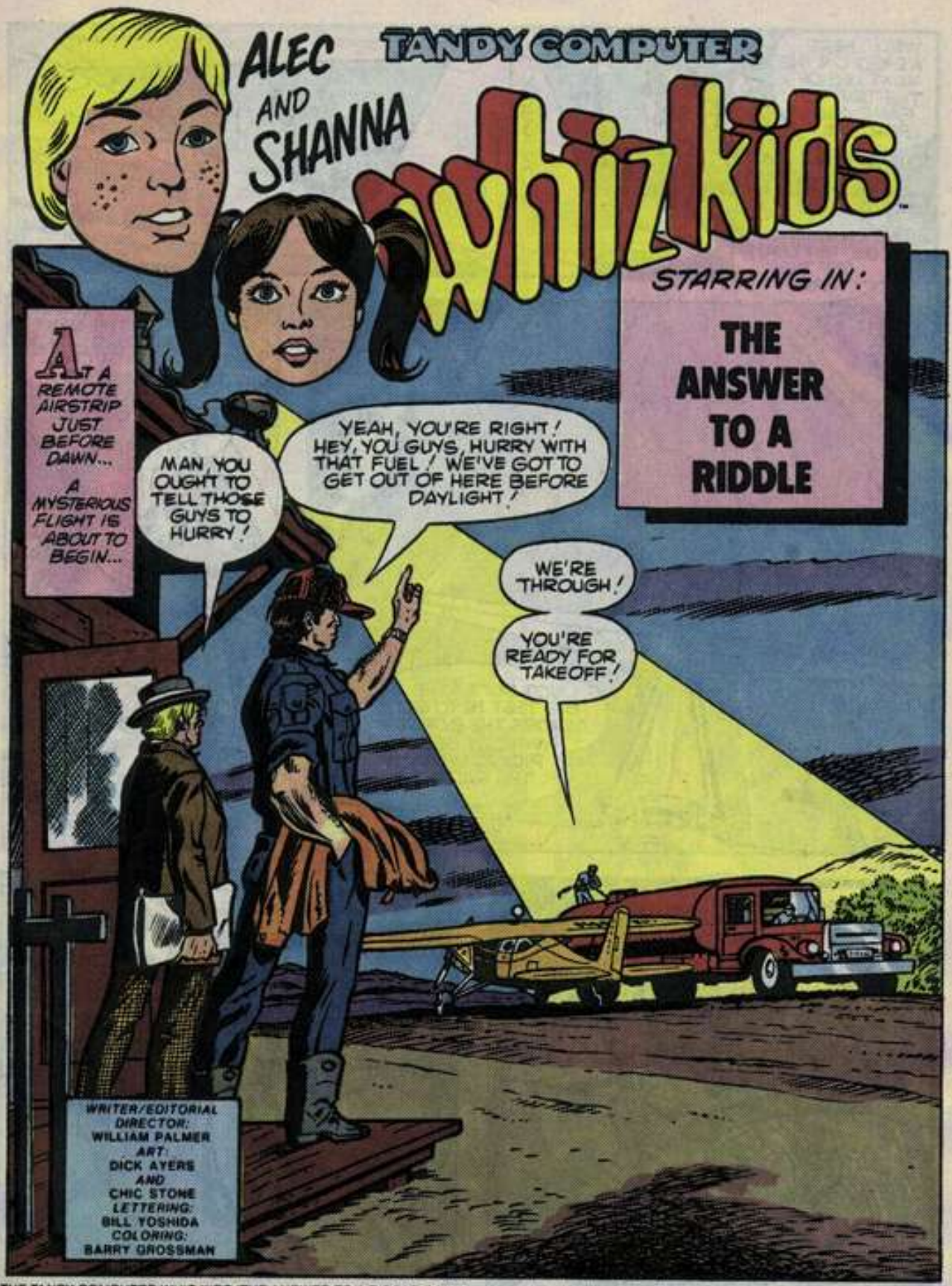

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CAT. NO. 66-2010


WELL, HERE WE GO ON THE NEXT LEG OF THE TRIP TO FAME AND FORTUNE!
WE'D BETTER LEAVE OFF THE FAME!
29390I
AH! NOW WE'VE GOT IT MADE!
NOT QUITE! THE BIG TEST IS TO GET ACROSS THE BORDER WITHOUT BEING PICKED UP ON THE RADAR!
WE'VE GOT TO HUG THE GROUND FOR THE NEXT COUPLE OF HOURS... NO RUNNING LIGHTS ON... ONLY MOONLIGHT! BUT, WE'VE MADE IT BEFORE! MAYBE, WE CAN DO IT AGAIN!
WHAT DO YOU MEAN, MAYBE! WE'VE GOT TO MAKE IT!
YEAH! I KNOW— FOR FORTUNE'S SAKE!
2


MEANWHILE...
COASTAL CITY ELEMENTARY SCHOOL
GOOD MORNING, CLASS! I HOPE THAT YOU ENJOYED YOUR SUMMER VACATION!
AND NOW, IF YOU'LL TAKE YOUR SEATS I WILL GET ON WITH SEVERAL SURPRISES FOR TODAY!
WHAT ARE THEY, MS. WILSON? TELL US, PLEASE!
FIRST, LET'S HEAR ABOUT SOME OF YOUR SUMMER ACTIVITIES! ANY VOLUNTEERS?
ME, MS. WILSON! PLEASE LET ME TELL WHAT OUR SCIENCE CLUB DID!
OKAY, SHANNA! TELL US ABOUT YOUR CLUB!
WELL, MS. WILSON, IT ALL REALLY BEGAN A YEAR AGO WHEN WE STARTED OUR SCIENCE CLUB...
BUT WHAT ABOUT LAST SUMMER, SHANNA?
WELL, MS. WILSON, WE WORKED LIKE WE DID LAST YEAR, AND SAVED OUR MONEY FOR A TRIP TO BIG CITY'S MUSEUM OF SCIENCE AND TECHNOLOGY!
IT WAS GREAT FUN! AND WE LEARNED A LOT, TOO!
3

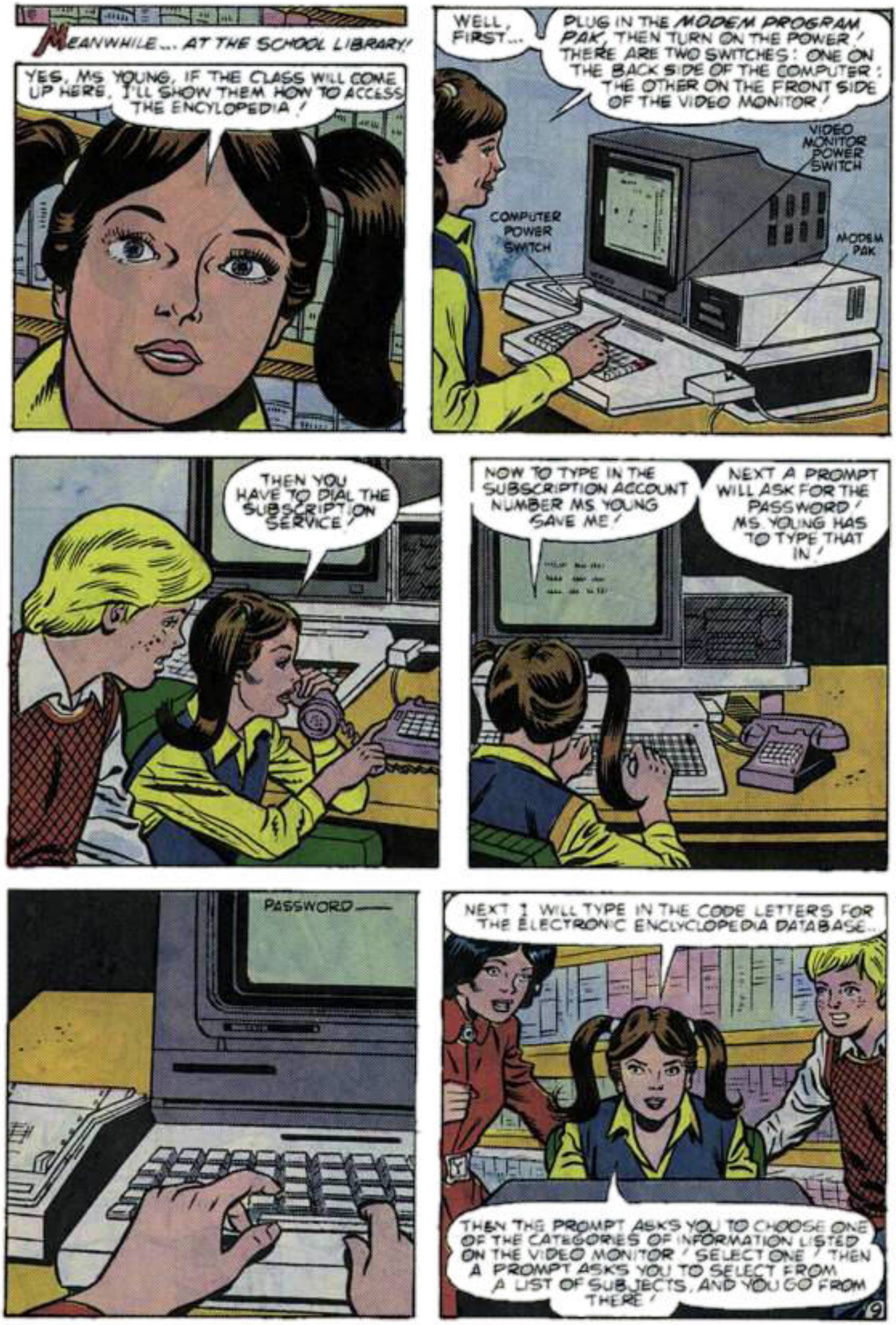

SHANNA, THAT WAS A SPLENDID SUMMER ACTIVITY! I THINK A BIG HURRAH IS IN ORDER!
HURRAH FOR SHANNA! YAAAY! SUPER!
NOW, MS. WILSON, TELL US ABOUT THOSE SURPRISES!
YAAAY! PLEASE TELL US NOW!
BACK TO THE MYSTERY AIRPLANE...
HERE WE ARE AT LOST HORIZON! NOT EVEN ON A MAP... AND THAT'S THE BEST PART!
IT'S LOST... THAT'S FOR SURE!
HEY, GRADY, HOW LONG DO WE HAVE TO WAIT AT THIS DUMP!?!
THE HEAD OF THIS PROJECT SAID TO WAIT FOR A PHONE CALL AT 11:00 O'CLOCK THIS MORNING! THEY'LL LET US KNOW IF THE COAST IS CLEAR FOR OUR TARGET!
WELL, WE'VE GOT A LONG WAIT AHEAD OF US... WITH NOTHING TO DO BUT DRINK COFFEE AND LOOK OUT THE WINDOW!
WE'LL GET PAID FOR OUR TIME AND TROUBLE! MAYBE WE CAN EVEN RETIRE AFTER THIS JOB!
IS THIS SUPPOSED TO BE THE GOOD LIFE?
DON'T FORGET... I DIDN'T SAY WHAT KIND OF RETIREMENT!
4


BACK TO MS. WILSON'S CLASSROOM ... AND THE FIRST SURPRISE ...
ARE YOU READY FOR THE FIRST SURPRISE?
READY! YAAAH!
OKAY, WE'LL FIND IT IN THE LIBRARY! PLEASE LEAVE THE ROOM QUIETLY ... NO RUNNING!
I CAN'T WAIT TO FIND OUT WHAT COULD BE A SURPRISE IN THE LIBRARY!
ME, TOO!
I'M MS. YOUNG, THE LIBRARIAN FOR OUR SCHOOL, AND I HAVE A SUPER SURPRISE FOR YOU UNDER THIS CLOTH!
PLEASE, UNCOVER IT NOW, MS. YOUNG!
THE SUSPENSE IS TOO MUCH! HURRY!
BET I CAN GUESS WHAT IT IS, MS. YOUNG!
NO TIME FOR GUESSING GAMES, ALEC! THIS WILL BRING US AN ELECTRONIC ENCYCLOPEDIA ... SURPRISE NUMBER ONE ...


...A NEW COLOR COMPUTER 3 VIDEO MONITOR, A PROGRAM PAK, TRP-100 TEXT AND GRAPHICS PRINTER, DISK DRIVE AND MODEM!
PLUS A SUBSCRIPTION TO DATABASE INFORMATION SERVICE!
WOW! IT'S EVEN GOT A DIRECT CONNECT MODEM PROGRAM PAK!
MODEM
DISK DRIVE
TANDY
UH... BUT JUST WHAT IS THAT MODEM PROGRAM PAK, USED FOR, SHANNA?
FIRST, HOW IS THE COLOR COMPUTER #3 GOING TO BRING US AN ELECTRONIC ENCYCLOPEDIA?
YEAH! HOW ABOUT THAT?
ALEC, THE MODEM LETS YOU CONNECT YOUR COMPUTER BY PHONE TO A SUBSCRIPTION SERVICE HAVING AN INFORMATION DATABASE!
OKAY, BUT WHAT ABOUT DATABASES?
6


SHANNA, ALSO EXPLAIN HOW WE CAN HAVE AN ELECTRONIC ENCYCLOPEDIA VIA A DATABASE!
WELL A DATABASE CAN BE WHAT IS CALLED INFORMATION RETRIEVAL SERVICES, WHICH OFFER AN ELECTRONIC ENCYCLOPEDIA, NEWSPAPER NEWS, MAGAZINE ARTICLES, WEATHER, SPORTS NEWS, AND OTHER SUBJECTS THAT YOUR COMPUTER CAN TAP INTO OVER A TELEPHONE LINE!
WOW, TELL US MORE ABOUT THE ELECTRONIC ENCYCLOPEDIA!
IT'S FUN TO USE! IT HAS TOPICS LIKE SCIENCE, HEALTH, GEOGRAPHY, TRAVEL AND OTHER INTERESTING THINGS! BEST OF ALL... IT'S UPDATED EVERY FEW MONTHS, AND A YEAR'S SUBSCRIPTION DOESN'T COST VERY MUCH!
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. YOUNG! BUT IN A FEW WORDS, IT ALL BEGAN TWO SUMMERS AGO WHEN WE AND A GROUP OF OTHER KIDS IN OUR NEIGHBORHOOD STARTED A SCIENCE CLUB!
IT HELPED MAKE SCIENCE INTERESTING!
OUR SCIENCE CLUB IS A GREAT WAY TO CONTINUE TO LEARN DURING THE SUMMER... DOING ALL THOSE EXPERIMENTS WITH OUR ELECTRONIC LAB KIT... INCLUDING SIMPLE COMPUTER CIRCUITS... AND PRACTICE ON OUR COLOR COMPUTER! IT MADE LEARNING FUN!
OUR CLUB PROJECTS GAVE US SOMETHING USEFUL TO DO WITH OUR TIME!
MS. YOUNG, PLEASE SHOW US HOW TO ACCESS THE ELECTRONIC ENCYCLOPEDIA!
YES, MS. YOUNG, PLEASE!
OKAY! SHANNA, WOULD YOU SHOW JUST HOW EASY IT CAN BE TO USE OUR NEW ELECTRONIC ENCYCLOPEDIA?
7


MEANWHILE, TWO MYSTERIOUS TRAVELERS ARE WATCHING THE CLOCK...
WHAT TIME IS IT?
WELL, I'LL PUT IT THIS WAY: IT'S HIGHTIME FOR THAT PHONE CALL, UNLESS THE PROJECT IS IN TROUBLE!
YOU KNOW, GRADY, I'M BEGINNING TO WONDER IF WE'RE NOT GETTING SHORT-CHANGED ON THIS DEAL!
YEAH! THAT HAS CROSSED MY MIND, TOO!
FINALLY! YOU KNOW IT'S A QUARTER PAST ELEVEN!
HOPE THAT DOESN'T MEAN TROUBLE!
RINGG
YEAH, THIS IS GRADY! ARE YOU SURE ABOUT THAT? MAN, WE CAN'T SET THIS PLANE DOWN IN WEATHER LIKE THAT!
WELL, OKAY! BUT REMEMBER, THE PROJECT'S SUCCESS DEPENDS ON THE WEATHER!
WELL, WHAT DID HE SAY ABOUT THE WEATHER??
THE LATEST WEATHER REPORT FOR THE TARGET THIS AFTERNOON CALLS FOR A SEVERE RAIN-STORM! CAN YOU BEAT THAT!?!
THEY'RE GOING TO CHECK AGAIN IN ABOUT A HALF HOUR TO SEE IF ANY CHANGE IS INDICATED...
...SAID THEY'D CALL RIGHT AWAY!
8


MEANWHILE... AT THE SCHOOL LIBRARY!
YES, MS YOUNG, IF THE CLASS WILL COME UP HERE, I'LL SHOW THEM HOW TO ACCESS THE ENCYLOPEDIA!
WELL, FIRST...
PLUG IN THE MODEM PROGRAM PAK, THEN TURN ON THE POWER! THERE ARE TWO SWITCHES: ONE ON THE BACK SIDE OF THE COMPUTER; THE OTHER ON THE FRONT SIDE OF THE VIDEO MONITOR!
VIDEO MONITOR POWER SWITCH
COMPUTER POWER SWITCH
MODEM PAK
THEN YOU HAVE TO DIAL THE SUBSCRIPTION SERVICE!
NOW TO TYPE IN THE SUBSCRIPTION ACCOUNT NUMBER MS YOUNG GAVE ME!
NEXT A PROMPT WILL ASK FOR THE PASSWORD! MS YOUNG HAS TO TYPE THAT IN!
PASSWORD
NEXT I WILL TYPE IN THE CODE LETTERS FOR THE ELECTRONIC ENCLYCLOPEDIA DATABASE..
THEN THE PROMPT ASKS YOU TO CHOOSE ONE OF THE CATEGORIES OF INFORMATION LISTED ON THE VIDEO MONITOR! SELECT ONE! THEN A PROMPT ASKS YOU TO SELECT FROM A LIST OF SUBJECTS, AND YOU GO FROM THERE!
9


GEE WHIZ!
THAT WAS EASY!
YAAY!
GREAT SHOW, SHANNA!


THANK YOU, SHANNA! THAT'S ALL FOR THIS SESSION! WE'LL HAVE MORE LATER!


OKAY, CLASS DISMISSED FOR LUNCH!


MEANWHILE...
ISN'T IT ABOUT TIME FOR THAT PHONE TO RING?!
YEAH! IT IS!


RINGGG!


SO, THE WEATHER MAY NOT BE THAT BAD AFTERALL?
WELL, OKAY, BUT IT'S GOING TO BE CLOSE... ANY HEADWIND WILL USE UP OUR FUEL FAST!
WHAT'S THE SCORE, GRADY?
NOW, THEY SAY GO AHEAD AS PLANNED!
THIS RUN HASN'T BEEN THE GREATEST!
YOU CAN SAY THAT AGAIN!
IT MIGHT BE A GOOD IDEA TO HAVE THOSE GUYS RECHECK THE FUEL TANK!
YEAH! GOOD IDEA, JACK! I DON'T WANT TO HAVE TO FLY THE LAST 50 MILES ON A CUP OF GAS!
ARE YOU SURE THE TANK IS FULL?
YEP! YOU'RE ALL SET TO GO!
NOW WE HEAD FOR THE TARGET!
WHY DON'T YOU STOP SAYING TARGET? YOU KNOW WE'RE HEADING FOR COASTAL CITY!
11

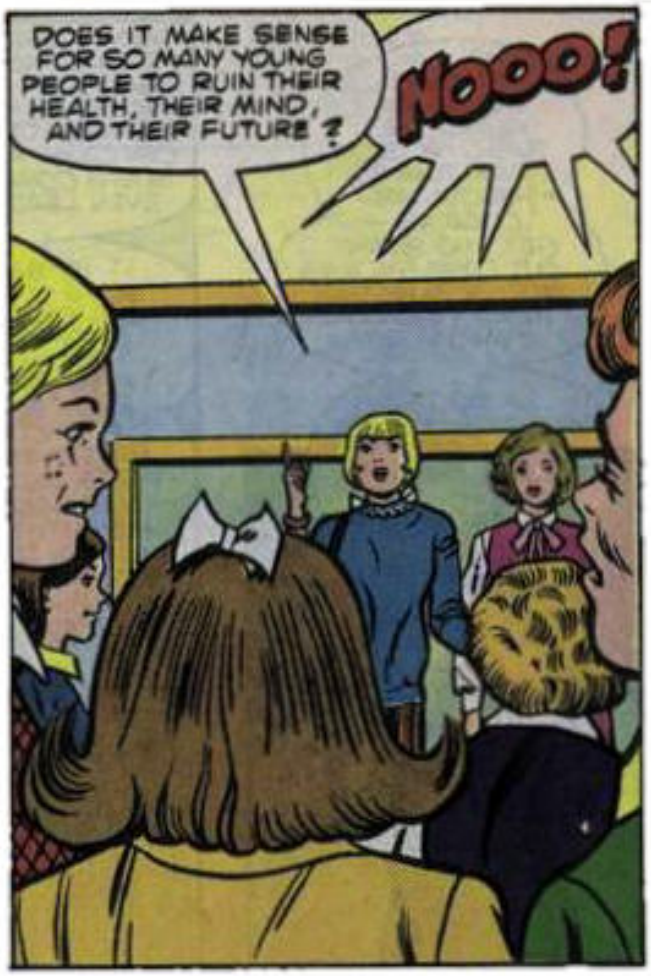

YEAH! YOU'RE RIGHT, JACK! I SHOULD SAY COASTAL CITY! I GUESS I HAD SOMETHING ELSE ON MY MIND!
WHAT DO YOU MEAN, SOMETHING ELSE ON YOUR MIND?
WELL, IN A SENSE, IT'S A KIND OF DESTRUCTION WE'RE BRINGING TO COASTAL CITY — TO KIDS... TO ADULTS — FOR MONEY! BIG MONEY! BLOOD MONEY!
HEY, MAN! YOU'RE NOT THINKING ABOUT QUITTING THIS BUSINESS, ARE YOU?
COULD BE!
I CAN'T BELIEVE WHAT I'M HEARING!
12


AFTER LUNCH AT COASTAL CITY ELEMENTARY SCHOOL...
MS. WILSON, HOW ABOUT THE OTHER SURPRISES?
AS A MATTER OF FACT, WE HAVE ONE!
KNOCK KNOCK!
...ON THE WAY NOW!
ASS
COME IN, LAURA!
224
CLASS, THIS IS LAURA SCOTT, A STUDENT AT THE COASTAL CITY JUNIOR HIGH!
SHE IS A MEMBER OF HER SCHOOL'S "SAY NO TO DRUGS" COMMITTEE...
...AND SHE IS GOING TO TELL OUR CLASS ABOUT SOME OF THE HARMFUL EFFECTS OF DRUG ABUSE!
13


THANK YOU, MRS. WILSON AND STUDENTS, FOR THE OPPORTUNITY TO TALK TO YOU ABOUT "SAY NO TO DRUGS"...
THE ANSWER TO A LIFE THREATENING CRISIS IN OUR COMMUNITY!
THE KID NEXT DOOR...
WHERE HAS HE BEEN LATELY? YOU MAY HAVE SEEN HIM TAGGING ALONG WITH SOME OF THE LOCAL DRUGGIES FROM MAYBE YOUR OWN NEIGHBORHOOD...
...NICE KID, GOOD FAMILY!
TOO BAD! HE'S HEADED FOR BIG TROUBLE... SO ARE HIS NEW FRIENDS!
IT'S A LONG WAY DOWN TO ROCK BOTTOM! IF HE'S LUCKY, MAYBE HE CAN PICK HIMSELF UP! BUT, MAYBE, AFTER HE'S BEEN VEGGED OUT, A REAL SPACE CADET, THERE MAY BE NO WAY BACK- AND HE'S SO YOUNG!*
* PART OF A REAL-LIFE SPEECH BY A JUNIOR HIGH STUDENT. (REAL NAME NOT USED)
14


I'M SURE YOU'VE ALL HEARD THE BASIC FACTS ON MARIJUANA, HEROIN, AND COCAINE — GETTING BURNT OUT FROM SMOKING POT, OR INJECTING HEROIN SEVERAL TIMES A DAY...
...ALSO THAT SNIFFING COCAINE CAN SEVERLY DAMAGE, OR RUIN THE MEMBRANES OF THE NOSE!
THEN, THERE'S ANOTHER FRIGHTENING DRUG, PCP, ALSO KNOWN AS ANGEL DUST WHICH IS AN HALLUCINOGEN! TOO MUCH OF THIS DRUG CAN CAUSE A USER TO GO INTO A COMA, OR IT CAN EVEN LEAD TO DEATH!
IT IS SAID THAT SOME USERS WERE BELIEVED TO HAVE DROWNED IN WATER, BECAUSE, IN THEIR CONFUSION, THEY DIDN'T KNOW WHICH WAY IS UP... AND THAT SOME HAVE EVEN DIED IN FIRES, BECAUSE THEY HAD BECOME INSENSITIVE TO THE PAIN OF BURNING!
DO YOU KNOW WHO BENEFITS MOST FROM ALL THE HUMAN SUFFERING FROM DRUG ABUSE? ILLEGAL DRUG CZARS... DEALERS... AND THE SMUGGLERS! IT'S THE WAY THEY HAVE MONEY TO LIVE IN POSH SUBURBAN NEIGHBORHOODS... A LIFE OF LUXURY... WITH NOT A THOUGHT FOR THE LIVES THEY'VE RUINED, OR THE DEATHS THEY'VE CAUSED!
EVERY TIME A USER BUYS ILLEGAL DRUGS... THE MONEY KEEPS THE DEALERS AND SMUGGLERS LIVING IN EVEN GREATER LUXURY!
15


THINK ABOUT IT! WE THE YOUNG PEOPLE OF TODAY, WILL HAVE TO ASSUME POSITIONS OF LEADERSHIP IN SCIENCE, BUSINESS, GOVERNMENT, MEDICINE AND COMMUNITY LIFE IN THE AMERICA OF TOMORROW!

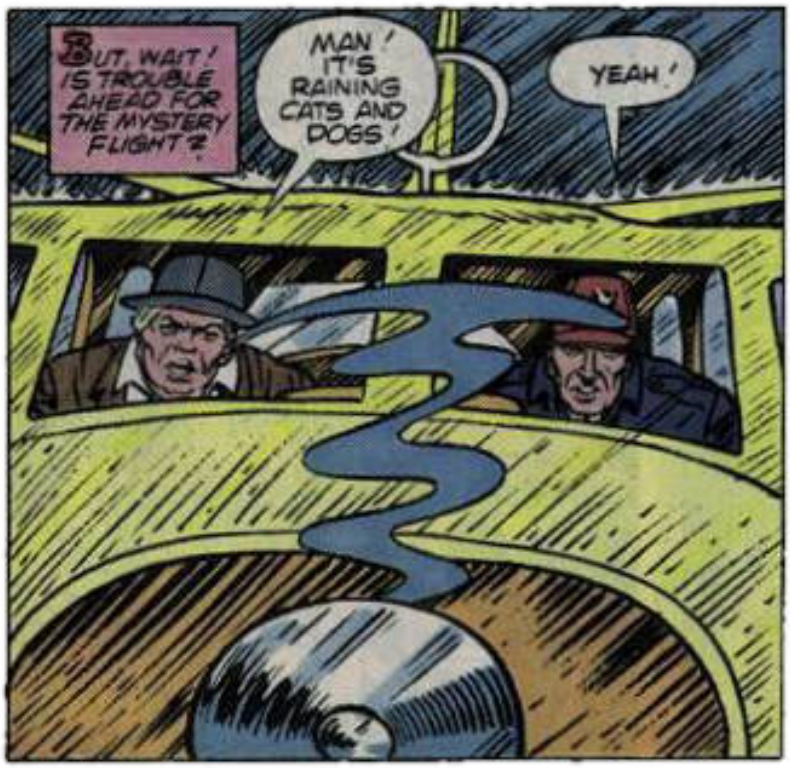

DOES IT MAKE SENSE FOR SO MANY YOUNG PEOPLE TO RUIN THEIR HEALTH, THEIR MIND, AND THEIR FUTURE?
NOOO!


THAT'S RIGHT!
THE ANSWER TO DRUG ABUSE OF ANY KIND IS A BIG NO!
THANK YOU FOR LISTENING!


THANK YOU, LAURA, FOR THAT SPLENDID SPEECH ABOUT DRUG ABUSE.
CLASS, LET'S GIVE HER A BIG HURRAH!
HURRAH FOR LAURA!
YAAAH!
WE SAY NO TO DRUGS!
16


NOW, IT'S TIME FOR THE THIRD SURPRISE!
IN THE MEANTIME... THE MYSTERY FLIGHT CONTINUES...
N93
YEAH! I STILL CAN'T BELIEVE YOU'D ALLOW THE WORD QUIT TO CROSS YOUR MIND!
PEOPLE LIKE US ARE NOT ALLOWED TO QUIT THIS GAME--- IF YOU KNOW WHAT I MEAN!
COOL IT, JACK!
LOOK AT THAT SKY AHEAD OF US!
WOW! I THOUGHT WE WEREN'T SUPPOSED TO RUN INTO ANYTHING LIKE THAT!
NOW, YOU KNOW! YOU'D BETTER BE SURE YOUR SEAT BELT IS TIGHT, GOOD BUDDY!
DO YOU THINK WE CAN FLY THROUGH WEATHER THAT ROUGH?
WELL, THERE'S ONLY ONE WAY TO FIND OUT!
17


BUT WHAT IS MS. WILSON'S NEXT SURPRISE?!
OKAY, HERE'S THE NEXT SURPRISE!
OUR CLASS HAS BEEN SELECTED AGAIN TO OPERATE THE COASTAL CITY ELEMENTARY SCHOOL'S SCIENCE EXHIBIT AT THE COUNTY FAIR... AND...
THE WHIZ KIDS, SHANNA AND ALEC, HAVE BEEN CHOSEN TO HELP THE SCIENCE TEACHER SET UP THE EXHIBIT THIS AFTERNOON! HOW ABOUT THAT?
YAAY!
ALL RIGHT!
SHANNA, YOU AND ALEC ARE EXCUSED FROM CLASS! OUR SCIENCE TEACHER, MS. WILLIAMS, WILL MEET YOU AT THE SCHOOL ENTRANCE! TAKE YOUR RAINCOATS!
HI, SHANNA!
HI, ALEC!
HI, MS. WILLIAMS!
COASTAL CITY ELEMENTARY SCHOOL
ISN'T THIS THE GREATEST, SHANNA?
I CAN HARDLY WAIT TO GET OUR BOOTH SET UP!
18


BUT, WAIT! IS TROUBLE AHEAD FOR THE MYSTERY FLIGHT?
MAN! IT'S RAINING CATS AND DOGS!
YEAH!


AREN'T WE GETTING CLOSE TO THE AIRPORT?


N9390H
HEY, GRADY! THAT LOOKS LIKE AN AIRPORT OFF TO OUR RIGHT UP AHEAD! COULD IT BE COASTAL CITY?
THAT WOULD BE THE COUNTY AIRPORT!


THAT'S IT!!
N9390H CALLING COUNTY AIRPORT TOWER!
COME IN, PLEASE!
COME IN, N9390H!
WE NEED CLEARANCE FOR EMERGENCY LANDING... AND URGENT YOU HAVE A DETECTIVE MEET US... NO UNIFORMED COP! OKAY?
CLEAR TO LAND... WILL COMPLY WITH YOUR REQUEST... WATCH OUT FOR POSSIBLE WIND SHEAR!
HEY, MAN! WHAT ARE YOU DOING? SO THAT'S WHY YOU'VE BEEN TALKING IN RIDDLES ALL THIS TIME!
YOU'RE A HUNDRED PERCENT RIGHT! AND THE ANSWER CAME TO ME LIKE A FLASH!
20


MAN, YOU'RE GOING TO HEAD THIS CRATE OVER TO COASTAL CITY AIRPORT WHERE WE'VE GOT AN APPOINTMENT!
WELL, WELL! DO YOU KNOW HOW TO FLY AN AIRPLANE, MR. WISE GUY?
UH! NO!
THEN, I SUGGEST YOU PUT THAT IRON BACK IN YOUR POCKET NOW! THEN, JUST RELAX AND SWEAT OUT THIS LANDING!
WHO KNOWS, YOU MIGHT EVEN SEE THE LIGHT, TOO!
GRADY, THEY'LL BLOW US AWAY!
WHY WORRY? THIS STORM MAY DO THAT!
21


AT THE SAME TIME...
SHANNA, I'LL LET YOU AND ALEC OUT HERE!
OKAY, MS. WILLIAMS, WE'LL WAIT AT THE ENTRANCE UNTIL YOU PARK THE VAN!
I JUST NOTICED! YOU KNOW, THE END OF THE COUNTY AIRPORT RUNWAY IS PRETTY CLOSE TO THE SCIENCE HALL AREA!
IT SURE IS! AND PLANES MUST BE REAL LOW WHEN THEY PASS OVER THE STREET!
WOW! THAT RAIN IS REALLY COMING DOWN!
HEY! IS THAT AN AIRPLANE'S LANDING LIGHTS?
YES! AND...OH! LOOKS LIKE IT'S IN TROUBLE!
HEY! LOOK AT THAT! IT'S NOT GOING TO CLEAR THE STREET... JUST BARELY...
OH, ALEC! IT'S GOING TO CRASH!
CRASH!
N9369N
22


LET'S GO!
THEY MAY STILL BE ALIVE!
QUICK! LET ME HELP YOU OVER THIS FENCE!
WE'VE GOT TO HURRY!
ALMOST THERE!
ONE MORE YANK SHANNA!
THERE!
I THINK HE'S STILL ALIVE! THOUGHT I HEARD HIM GROAN!
GOT TO GET HIM FAR ENOUGH AWAY BEFORE AN EXPLOSION!
23


AT THE SAME TIME!
WROOOOO
EMERGENCY
WE'VE GOT TO GET THE OTHER GUY OUT!
RIGHT! SECONDS COUNT NOW!
OH NO! THIS DOOR SEEMS TO BE STUCK!
LET ME BRACE MY FOOT AGAINST THE SIDE... THEN WE'LL HAVE MORE LEVERAGE!
THERE! IT'S COMING LOOSE!
WOW, SAFE AT LAST!
THERE'S A FLAME! IT'S GOING TO BLOW UP!
N9390H
KA-VRAMM
24


DETECTIVE SHAW!
MS. BAKER, FROM THE COASTAL CITY NEWS!


:GROAN!: MMMMM! DETECTIVE... DETECTIVE!!
I'M DETECTIVE SHAW! WHAT DO YOU WANT TO TELL ME?


DRUGS IN WING-TIP... QUICK... CALL COASTAL CITY AIRPORT...: GROAN!: CALL SECURITY... YOU'VE GOT TO CATCH THEM... BLACK VAN... SMALL PLANE PARKING AREA...: GROAN!: THEY'RE THE RINGLEADERS... DRUG RACKET!: GROAN!: MMMMMM!
WE'LL CATCH THEM!


QUICK, MS. BAKER! LET ME BORROW YOUR CELLUFONE 200! I'VE GOT TO CALL COASTAL CITY AIRPORT SECURITY!
WHAT HAS HAPPENED?
TELL YOU LATER!
WOW!


... AND THEY'RE IN A BLACK VAN AT THE SMALL PLANE PARKING STRIP! MOVE IN QUICK! I'LL HOLD... WANT NEWS RIGHT AWAY!
25


DO YOU TWO KNOW WHO YOU JUST RESCUED?
NO!
THEY WERE DRUG SMUGGLERS!!
WHAT?
KIDS, THE GOOD NEWS IS... THEY HAVE SAID NO TO DRUG SMUGGLING!
WHAT? YOU CAUGHT THEM! THAT'S SUPER! TELL SECURITY THEY'RE THE BEST!
NEXT MORNING... AT THE HOSPITAL...
...AND PUT THIS IN YOUR NEWS STORY... WE GOT A SECOND CHANCE! IN OR OUT OF PRISON... WE'RE GOING TO JOIN THE KIDS... AND THE MAMAS AND THE PAPAS... IN SAYING NO TO DRUGS!
THAT GOES FOR ME, TOO, GRADY! YOU WERE RIGHT AFTER ALL— I DID SEE THE LIGHT!
TWO DAYS LATER...
GOOD MORNING, SHANNA AND ALEC! PRINCIPAL ORTEZ HAS SOMETHING TO TELL YOU!
WE WANT YOU TO KNOW HOW TRULY PROUD WE ARE FOR YOUR HEROIC ACT DAY BEFORE YESTERDAY! IT SAVED MORE THAN TWO LIVES! IT MAY HAVE SAVED MANY FROM DEATH AS A RESULT OF DRUG ABUSE! SO, WE HAVE DECLARED TODAY ALEC AND SHANNA DAY!
HURRAH FOR THE WHIZ KIDS!
COASTAL CITY
HIP! HIP! HURRAY! YAAH!
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).

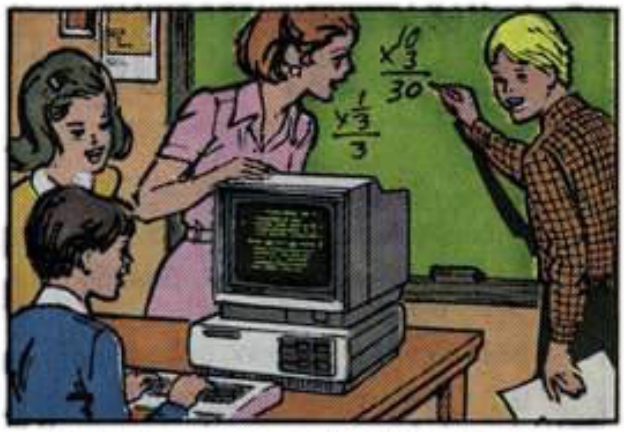
PROGRAM The instructions that tell a computer how to process and deliver its answer or information.

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!

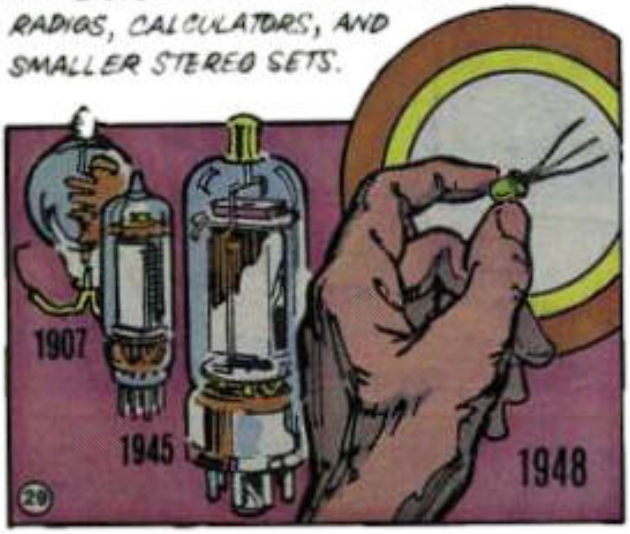
IN 1801, **JOSEPH MARIE JACQUARD**, CALLED THE "FATHER OF THE COMPUTER", WAS HONORED BY THE EXPOSITION IN PARIS FOR A WEAVING LOOM WHICH USED **PROGRAMMED, PUNCHED, CARDS** TO CONTROL THE WEAVING OF COMPLEX PATTERNS FROM THREAD.

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.**

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!**

IN 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**!

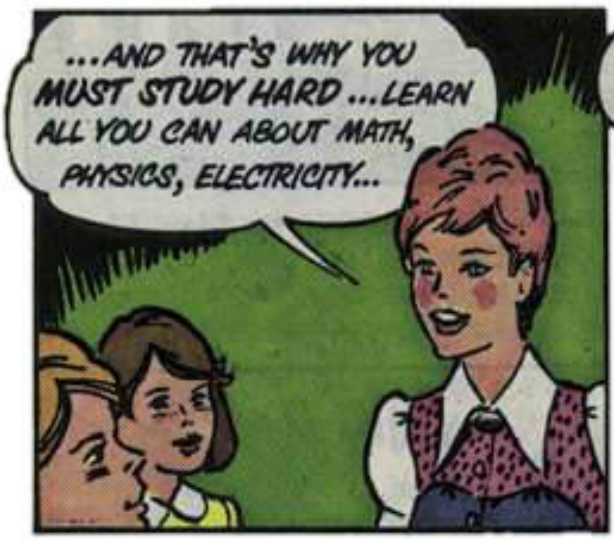
THAT'S WHY THE PILGRIMS CAME TO AMERICA IN 1620—SEARCHING FOR RELIGIOUS FREEDOM AND THE RIGHT TO GOVERNMENT BY THE PEOPLE.

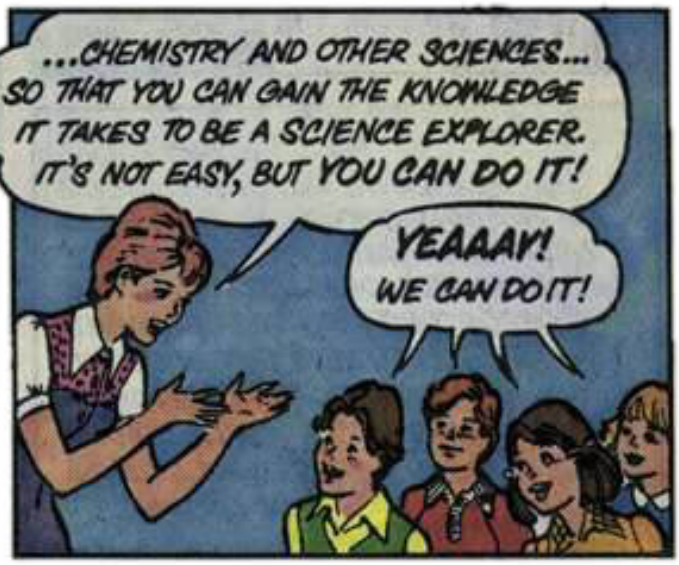
THE **GOLDEN KEYS** THAT OPENED THE DOORS FOR THE SCIENCE EXPLORERS OF THE UNITED STATES OF AMERICA ... PEOPLE LIKE NIKOLA TESLA, SAMUEL MORSE, ALEXANDER BELL, THOMAS EDISON, JOSEPH HENRY, BENJAMIN FRANKLIN, ROYAL HOUSE, EDWIN ARMSTRONG, JOSEPH TYKOCINER, LEE DEFOREST, AND THE INVENTORS OF THE TRANSISTOR— 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)!





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