

# KICKSHAWS

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*Readers are encouraged to send their own favorite linguistic kickshaws to the Kickshaws Editor. All answers appear in the Answers and Solutions at the end of this issue. Guest editors will continue to appear occasionally.*

## On The First Day of Christmas...

"The Twelve Days of Christmas" holds a numeric present for the holiday season. Let's open it and see what it is. First, the twelve days actually stand for the twelve months of the year, and they conceal a secret. On those twelve days/months, "my true love gave to me" a series of presents. On the first day, a partridge in a pear tree (one present). On the second day, two French hens and a partridge in a pear tree (3 presents). On the third day, three plus two plus one (6 presents). And so the progression goes -- 10, 15, 21, 28, 36, 45, 55, 66, 78. Add up the numbers to find the secret: "My true love gave to me" a total of 364 presents, one for each day of the year except Christmas. The present for Christmas is the song itself -- a musical calendar.

## Tom Pulliam

I was very saddened to read in the last issue that Tom Pulliam had passed away. I knew him only through his letters, and I valued them as sources of ideas, material, and encouragement. After I began doing this column on a regular basis, Tom was one of the first people who wrote directly to me.

Since then we corresponded on a regular basis, which is pretty good for two people who aren't prolific letter writers. When I got a letter from Tom, I knew there would be some addition or extension to a Kickshaws item. If a challenge intrigued him, he tackled it with vigor.

"In every issue of **Word Ways** I see some 'achievement' or 'challenge' that I think can be bettered...so I mark the page for identification, planning to get back to it...but I've not done so in a long while...meaning there are many challenges awaiting me on a day when I have nothing else to do (3 Apr 1989)."

His letters to me always contained two or three responses to Kickshaws items. If he gave an answer to a challenge, his answer would inevitably be the definitive response -- and he would explain his reasons and observations on the challenge.

"I decided to give a sharper look at the 'Anagram Split' placed upon you by Leonard Gordon...I'm afraid there is no great problem

for someone willing to dirty his hands with a bit of research. There are simply not enough parameters established...not enough specific limitations as to what is/is not limited."

The goal of the Anagram Split was to find an even-numbered word that anagrams into as many different pairs of equal-length words as possible. I thought 30 or 40 pairs would be the maximum for a ten-letter word. Tom picked the word SPHEROIDAL "at random" and found 126 pairs! Because I used other material from Tom at that time, I didn't include the list of anagram splits in Kickshaws, and it wound up in my file. Here it is in its entirety. All words appear in Web 2 or Web 3; many are archaic or variant.

ALIDS+EPHOR	APODE+SHIRL	EIDOS+RALPH	HORAS+PILED
APHIS+DROLE	ASHED+PIROL	EPRIS+HOLDA	HALER+POISD
ARIES+DOLPH	AHOLD+PRIES	SIDLE+PROAH	HODER+SPIAL
ARILS+HOPED	ALOED+SHRIP	EILDS+PHARO	HIDEL+SAPOR
ADLES+OPHIR	ALPID+SHORE	SLIDE+ORPAH	HORAL+SPIED
ALODS+HIPER	APHID+ROLES	EPHAS+DROIL	HOSEL+PARDI
ALDER+HOPIS	APSID+HOLER	PHASE+ROILD	HALDI+SPORE
AHSIR+POLED	AIDER+OLPHS	HADIS+POLER	HAORI+SPELD
ADRIP+HOLES	DRIAS+OPHEL	HEIRS+PODAL	HOLDE+PARIS
ADROP+SHIEL	DHERS+LIPOA	HOARS+LEPID	HORAE+SPILD
ALISP+HORDE	DOERS+PHIAL	HOERS+PLAID	HAILD+PROSE
ASLOP+HIDER	DORPS+ELIAH	HARPS+OILED	HALID+SOPER
APIOL+HERDS	DRAPS+HELIO	HALOS+PRIDE	HOARD+SPILE
APRIL+SHOED	DRIPS+HAOLE	HAROS+PLIED	HAROD+SPIEL
ARODI+HELPS	DHAOS+PILER	HAILS+PEDRO	HEARD+SPOIL
ALEPH+DORIS	DILOS+PHARE	EPHAI+LORDS	HIELD+PSORA
ALISH+DOPER	DAILS+HOPER	EPHOD+LIARS	HIRED+OPALS
APISH+LORED	DEILS+PHORA	HERLS+PODIA	HOSED+PILAR
ARIEH+PLODS	DHAIS+LOPER	HIDES+PAROL	HARED+POLIS
ARISH+LOPED	SOLID+RAPHE	HOPES+DRAIL	HIPED+LORAS
ADORE+SHILP	SHARD+OLEPI	HOLAS+PRIED	HILDA+PORES
HILSA+ROPED	DHERI+SALOP	OPAHS+RILED	PROAL+SIDHE
HISPA+OLDER	LADER+SOPHI	ORPED+SHAIL	POALI+SHRED
HOLIA+SPRED	DALER+OPHIS	OPERA+SHILD	PAOLI+SHERD
IDLER+SOPHA	LOHAR+SPEID	PAIRS+DHOLE	PAIRD+SHEOL
IDAHO+LERPS	LAISH+PORED	PLIER+SHOAD	PLEID+SHOAR
IRADE+PLOSH	LEISH+PRADO	POLAR+SHIED	PILEA+SHORD
ISHOD+PALER	LIESH+PARDO	DELHI+SARPO	POILS+DERAH
LAPIS+RHODE	LOSHE+RAPID	PORAL+SHIDE	REDIP+SHOAL
LAIRS+DEPOH	LAIRD+SHOPE	PRIAL+SHODE	HOSEA+RIPLD
SLIPE+RHODA	LODHA+PIERS	PADRE+SHILO	RIPED+SOLAH
DREIH+SLOAP	ORIES+DELPH		

Although he was the most thorough of researchers, Tom was always modest about his work. "Glad you could make use of my humble additions (6 Jun 1989)." "Please let me know of any interesting challenges where I might make some minor contribution (26 Jun 1989)."

Some of the problems he tackled might've been more easily handled by computer, but Tom preferred doing it by hand. In his last

letter to me, he expressed his disinterest in the use of computers in wordplay.

I wish I'd gotten to know Tom in person. He seemed like a genuinely kind person and a logologist of the first order. Here is a final challenge from one of his letters. Based on the sum of all letter-values, a word has a certain value (e.g., DEBUT=52, DUCHY=61). How long a list of consecutive numbers may be formed this way, in ascending sequence? Such a list would have to start with 0001=A. Then it would continue 0002=AA (scoriaceous lava flow), 0003=BA (soul, in Egyptian belief), 0004=ABA (Arabian garment)."

### A Rat in the White House

Halfway through the Nixon presidency, a rat snuck into the White House. When Nixon found out, he wanted it captured. He sent a memo to his advisors saying WE GET A RAT. But instead, the rat got them. Then it went into hiding for a few years. When Reagan took office, the rat emerged once again. Reagan presumed it was all a part of the era. He issued a memo warning his advisors RAT IN AGE. But the rat got them. During the Bush administration, the furry creature laid low, and many politicians thought it was dead. However, it was merely hibernating. Soon after Clinton took office, the rat crept out of the darkness, stretched its wiry muscles, blinked its beady eyes, and scurried about looking for more dirty work. Clinton saw the rat and tried to catch it, but it was too swift even for a president who jogs every day. Out of breath, he sent a memo to his staff, telling them WHEW! TIE RAT. But now the rat's getting them. Can you explain the memos?

### Acroinitials

According to British sources, "In a bid to rival the 'logological combo' of Susan Thorpe and Peter Newby, Nurse Pathos and Brent Weepy have been fooling around with a Newbian concept, acronym-type initials embedded in words which have some relationship (positive or negative) to the highlighted initials. The rules of construction require that the initials are not adjacent in the word."

FeDeRal	ChInA	EnTrAnce	CaBby
FaBrIcate	UpStAge	MiSsive	oVerImPress
aMalGaMation	OaSiS	BothersOme	miSfOrtuneS
AbstAin	LunAtic	deToNaTed	UnderFoOt
NoisY	unEarThly	PaLmOlive	OvErDiffuseness

### Conversation Conversion

Max Maven has two puzzles involving famous names. He writes "It's no challenge to figure out what these lists of people have in common; they're all in the same business. That shared profession is the key to the order in which the names have been listed. Can you discover what the key is for each list?

John Tesh, Steve Allen, Jay Leno, Larry King, Tom Snyder, Arsenio Hall, Conan O'Brien, Oprah Winfrey, Pat Sajak

Ted Koppel, David Letterman, Sally Jessy Raphael, Dick Cavett,  
Regis Philbin, Jane Whitney, Geraldo Rivera, Vicki Lawrence,  
Bob Costas

### Numerically Self-Referential Words Add Up

Monte Zerger has some new number words whose letter count refers to the number itself:

DECAHEDRON a geometric solid with ten faces

DODECAHEDRON a geometric solid with twelve faces

TRIANGULAR the triangular numbers are 1, 3, 6, 10, 15 ... so  
called because they can be placed in a triangular pattern

MERSENNE PRIME the prime number 13 is a Mersenne prime since  
 $2^{13}-1 = 8191$  is a prime number

He also notes that ONE + SEVEN, TWO + FIVE, THREE + SEVEN and  
FOUR + FOUR are self-referential sums.

### Follow-Ups

Eric Seale writes "A Kickshaw tidbit in the last issue referred to a 'SuperFranticDemocraticClintonLegislation' sign that someone held at a Dan Quayle rally. I think this was inspired by a song by the Capitol Steps, 'SuperFranticUnproductiveNothingLegislation', which is included on their KFools on the Hill cassette (1992, Strauss & Newport)."

He also provides the answer to the V in the poker alphabet. "Here's a guess as to the choice for V in the alphabet from the Witmark Minstrel Guide and Burnt Cork Encyclopedia -- 'V was the come in, you know the cost'. I think the 'come in' is a one-time amount a player must play to enter the game. In this case, that amount is 5 dollars (or pounds?), represented as the Roman numeral V."

### Designer Animals

Designer jeans, designer drugs, and now designer animals from England. Peter Newby wonders who came up with the classic definition that a camel is a horse designed by committee. To extend the idea, he created a few other designer animals, and I designed my favorite, the giraffe.

RHINO a gazelle designed by the Pentagon

MANATEE a mermaid designed by feminists

BAT a mouse designed by Wilbur and Orville Wright

WHITE-FEATHERED DOMESTIC FOWL a bald eagle designed by the  
Clinton administration

VULTURE a white-feathered domestic fowl designed by the Iraqis

PENGUIN a sparrow designed by Atlantis pessimists

YAK a sheep designed by a congregation of yetis

SNAIL a worm designed by the Mobile Home Association

ALLIGATOR a pussy cat designed by the Ku Klux Klan

GIRAFFE a horse designed by a peeping Tom

## Logomotives

Peter has also come up with a punning form of wordplay, the Logomotive, in the tradition of the Tom Swiftie, the Herman, the Tonto, and others. They're a lot of fun:

Is Doris Day light?	Was George the Fourth coming?
Was Franchot Tone deaf?	Was Vincent Price conscious?
Is Barbara Bush whacked?	Is Glenn Close up?
Is Olive Oyl slick?	Was Robert Frost bitten?
Was Donald Duck billed?	Can John Major in politics?
Is Abby Mann kind?	Could Elisha Cook beef?

## Al Gore Rhythm and Blues

In answer to a statement I made last issue, Susan Thorpe writes "You said that it was impossible to find a word encompassing Robert Dole in the form RDOLE, BDOLE, or their reverses ELODR and ELODB. A mELODRamatic statement! It would seem that Robert Dole certain runs, one way or another, albeit backwards! He appears in cinemELODRama, 'a photoplay depicting a melodramatic story', vELODRome, 'a building with a specially designed cycle track', and parallelELODRome, a botanical term, 'with veins running parallel to each other, as in most of the Monocotyledons'. As far as his nickname is concerned, BDOLE is to be found in subDOLEnt, where 'dolent' means 'sorrowful'."

## On the Dole

Last summer I taught poetry writing methods to a class of Iowa teachers. During the wordplay session, I suggested making up anagrams of famous people's names, and one student came up with an outstanding anagram of ROBERT DOLE -- ELDER ROBOT.

## I Am An Artist, And I Bless This In Me

A quote by Pablo Picasso? No, it represents a well-known word. Can you figure out the word, and can you come up with an alternative representation of it?

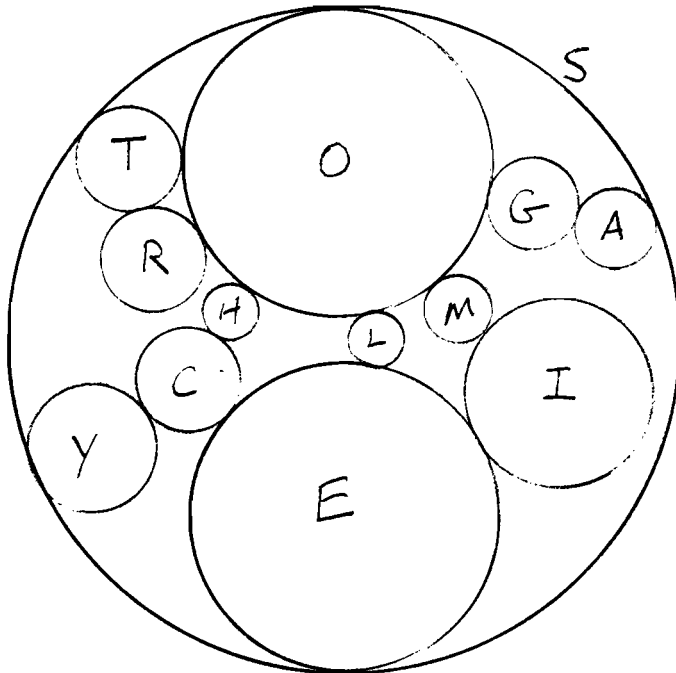
## The War Between Wonderland and Neverland

Under the leadership of Captain Hook, the Neverland Navy attacked Wonderland during Alice's third visit. In the neutral land of Oz, the Munchkins monitored the situation and reported on it every day in their newspaper, the Daily Ozma, which used only palindromic headlines. During the first battle, Alice was wounded and her country suffered much bloodshed. The Daily Ozma printed the story under the banner headline WONDERLAND 'N AL RED NOW. A few weeks later, Alice led the troops in a campaign to get even. The Daily Ozma headed the story E.G. NEVERLAND 'N AL REVENGE! Unfortunately, Neverland conquered Wonderland and moved its forces to the northern border of Oz. The Wizard turned to the stars for advice. The Daily Ozma quoted his desperate cry in an 80-point headline ZODIAC, AID OZ! Dorothy went to warn the Wizard that the Neverland Navy had conquered her home state and converted

it to a base of operations. The Daily Ozma quoted her words: RISE! KANSAS IS A SNAKE, SIR! But the Wizard and all the inhabitants of Emerald City were helpless. The Witch, using an IBM computer with a voodoo chip, had turned everyone into mindless shells of what they used to be. The war was over, the Witch was the winner, and the Daily Ozma's last headline read ZOMBIE, IBM, OZ.

### Symmetric Word Molecules

Word molecules, introduced in May, represent words as a diagram of circles with letters in them. The circles of adjacent letters touch. When the drawings are symmetric, they look better. Leonard Gordon sent a group of word molecule drawings, and wrote "You ask if someone can find a word which can't be [symmetrically] depicted. That's hard to do as long as we allow circles of different sizes. You have to be imaginative in drawing some words, of course, but that's what makes the game fun...For the future, I have enclosed a few drawings that use an outer circle. I drew these for a lark, but the more I think about it, the more I like the idea. All circles are tangent to some one or other. Topology recognizes inner and outer regions, etc. So why not? That CHOLEC-STOGASTROSTOMIES [diagrammed below] is crazy but elegant. Looks like a brain cell, no?"



### Kilroy Was No Killjoy

The famous piece of graffiti KILROY WAS HERE spread throughout the world during World War Two, thanks to American soldiers. But one American port city in the East had the opposite phrase written on one wall KILROY WAS NOT HERE. Who could have written it? A little anagramming reveals its author, THE NEW YORK SAILOR. Someone else wrote a response to that statement, KILROY DOESN'T --

WHERE? Who wrote that? There are three ways you can figure out the author. First, look for clues in the information in this paragraph. Second, anagram the letters in the phrase itself. Third, and easiest, replace a letter in one of the words of THE NEW YORK SAILOR with two other letters and rearrange them to form a new word.

### Tongue-Straightener

The tongue-twister defies you to speak it rapidly without mispronouncing any words. THE SIXTH SICK SHEIK'S SIXTH SHEEP'S SICK used to be the Guinness Book of World Records' listing for most difficult tongue-twister. But what about the opposite of a tongue-twister, the tongue-straightener -- a line that's very simple to say rapidly? The well-known palindrome STEP ON NO PETS is a fine example. Next time you tie up your tongue with the SHEIK palindrome, unravel it by saying at an increasingly faster rate STEP ON NO PETS, STEPONNOPETS, STPNPTS, STPTS, SPS... Your tongue will thank you.

### 'Tis Iron!" I Say, "Nor Is Irony a Sin -- Or Is It?"

Peter Newby pointed out that ENVIRONMENT has IRONMEN in it. It's ironic that no one in Iowa City has ever noticed this. In the 1940s, the Iowa Hawkeye football team excelled on the field and earned the nickname IRONMEN. In a related note, in the movie *The Silence of the Lambs*, Hannibal Lecter reveals that the name of the killer Buffalo Bill is LOUIS FRIEND, but Clarice sees through the deception: "Your anagrams are showing, Doctor. 'Louis Friend?' 'IRON SULFIDE.' Better known as fool's gold."

### Charade Clerihews

Ella Fitzgerald Got advice from a herald: "Wear a cap, Ella, And sing a cappella."	David Letterman Wrote in a letter, "Man, I took Johnny Carson For a ride in my car, son!"
Comedian Bob Hope Will try to bob hope- Fully for apples quite green Next Halloween.	Fidel of Cuba Was asked by a tuba- Player, "Why did you cast ro- Mance out, Mr. Castro?"
Michael Jackson Likes to play jacks on The floor with his band In his home, Neverland.	George Washington Spent time washing ton After ton of clothes, Which he hung up in rows.
Lewis Carroll Saw a car roll- ing away with Alice To the Red Queen's palace.	First Lady Rodham Waved a long rod, ham- Ming it up: "Hi, I'm Hillary, Wife of dear Billary."
Margaret Thatcher Tried to thatch 'er Hut with the pound But it fell to the ground.	Pietr Botha Said, "Golly, I'm both a Boer and bored, And I'm stiff as a board."

When pop star Madonna  
Starts getting mad on na-  
tional TV shows,  
She peels off her clothes.

Yawped poet Walt Whitman,  
"I care not a whit, man,  
For rhyming. I tried,  
But my lines got too wide."

### It's The Latest

In Latvia, a lone gambling casino provides the chance of getting rich quick. On the Cable News Network, they showed the place, a modest ex-home with just a few machines and a hand-made sign proclaiming it to be LAT VEGAS.

### Haitian Wordplay Analysis

The two main players in the Haitian conflict are President-in-exile ARISTIDE and military dictator General CEDRAS. Neither's name produces wordplay of the caliber of HUSSEIN (drat Saddam, a mad dastard) or even of NORIEGA (iron age, a circular reversal). Still, President Aristide's name fits into a palindromic sentence. Speech-writers tell him to put into his speech a thank-you to the U.S. for propping up his presidency: EDIT, SIR ARISTIDE. On the other side of the issue, General Cedras's name anagrams into the way he must've felt on hearing that 61 warplanes were on their way: CEDRAS = SCARED.

### Double Indemnity

The swashbuckling Errol Flynn once ran into the ominous Peter Lorre on the streets of Hollywood. The two actors admired each other so much that the chance encounter caused a drastic change in their personalities. Neither ever acted like himself again. This incident is recorded in cement near the door of Graumann's Chinese Theater in two poignant lines: ERROL WAS I ERE I SAW LORRE, LORRE WAS I ERE I SAW ERROL.

### Imagine Wordplay

Mike Reiss found an unusual shift of language in a headline. He writes "Word Ways, which has studied the patois of Variety, the show-business trade journal, might appreciate this. An executive named Stuart Smiley left his job at Imagine Eterna, a production company. Variety's headline read SMILEY ANKLES IMAGINE. These three words used an adjective as a noun, a noun as a verb, and a verb as a noun."

### Pop Beats Bad Rap

This headline from the Daily Iowan paper caught me in its web of intrigue. Three of the four words are synonyms, or close to it. According to the Collegiate Dictionary, BEAT = to strike repeatedly, POP = to strike or knock sharply, and RAP = to strike with a hard blow. It's easy to imagine a headline with seven synonyms, BEAT POP HIT KNOCKS RAP, STRIKES BOP (beatnik popular best-selling song cuts down rap music and attacks jazz). Still, what's really puzzling about the real headline is its real meaning. Before reading the story, I tried to guess what it was about. Here are



four interpretations -- which one is the true synopsis?

1. Soda pop isn't as bad as people thought it was
2. Pop music is better than rap music
3. A man accused of murdering his son was acquitted
4. Pop won a race against Bad Rap (both are racehorses)

**Cwm On..**

Which twentieth-century U.S. coin has a word without AEIOU or Y in it? What is that word?

### **Hard-Boiled Onomastics on the Superman TV Show**

Lois Lane: But we don't even know you.

Criminal: My friend here will introduce me. His name is Gun. Thirty-eight Caliber Gun.

### **Ticket, Please**

Cinema I and II at the Sycamore Mall sell movie tickets for adults and children. Strangely, both are the same price. It puzzles me when I take my son to the movie and the ticket seller asks "One adult and one child?" Usually I reply "Yes," and she (usually a she) replies "That'll be six dollars." Last week, I decided to exercise my right to confuse, so I replied "No, two adult tickets, please. I feel I'd be getting a better deal by buying two adult tickets for the same price as a child and an adult ticket." She looked at me as if I'd suddenly unlocked one of the great secrets of the movie business, and I felt a sense of triumph. But she was clever. As she handed me my two adult tickets, she said "Don't you think it's a waste to use an adult ticket for a child?"

### **Feminist Onomastics**

A few years ago, I met a woman named Mary Elizabeth. "What's your last name?" I asked. "Elizabeth is my last name." She explained that it hadn't always been that way, but that she'd legally changed her name by dropping her original last name and replacing it with her middle name. "There aren't any female last names," she said. I suggested Percy Bysshe Shelley, and she reluctantly agreed there might be a few. I'd planned on making a list of female last names, but our relationship was as short as my middle initial, and I never got around to it. Tonight, about 15 years later, I skimmed the Iowa City phone book to see what I could find...

Margaret Anne	John Grace	Elizabeth Joselyn	Gina Paulette
Chris Christy	Amy Hanna	M.C. Kate	James Pearl
David Christine	Freddie Hannah	Andrea Lara	Aaron Rose
Steve Doris	Nicole Jane	Bryan May	Derrick Shirley
Philip Dorothy	Guthmiller Jeanne	Glen Pam	John Winnie

### **String 'Em Up**

Robert KreTZSCHMar, a doctor at the University of Iowa, has a last name containing a string of six different consonants. Accord-

ing to the editor, a man with a similar string, Mr. KuNTZSCH, several years ago lived in the hamlet of Stone Arabia, New York. Dmitri Borgmann lists three other words having six-letter consonant strings: leNGTHSMan, weLTSCHMerz, and the London street name KniGHTSBridge. Are there any other surnames with six or more different consecutive consonants? Is there a KuRLTZSCHMar in the house?

### 'Twas The Night Before The Morning After

Gateway 2000, a computer company, has printed a 24-page booklet advertising its wares in an untitled parody of "A Visit From St. Nicholas". This expensively-produced giveaway has color photographs on every page. Unfortunately, the poem belongs in the doggerel house. Here are some of the better excerpts. (Most of the omissions drone on about the Gateway 2000 system.)

'Twas the night before I bought my PC,  
The only thing stirring was one mouse and me.  
The PC I planned to purchase with such care,  
Was yet unselected, still up in the air...

Then out on the lawn there arose such a clatter,  
I sprang from my desk to see what was the matter.  
I saw the strange craft and I let out some "Wows,"  
It's not often you see a red sleigh drawn by cows.  
For a second I swore that my eyes played a trick,  
The driver was Santa Cow, not old St. Nick!  
She brought with her toys for broadening minds,  
Gateway 2000 PCs of all kinds.  
I remembered that name -- "Gateway values," I read,  
"Are the best in the industry," editors said.  
"Gateway's prices, quality, and service," they wrote,  
"Are udderly wonderful. They get our vote."...

I started to see that with all Gateway's wares,  
Although it sounds corny, there somebody cares!  
You get honest value for your hard-earned buck,  
Compared to them I find the other brands (well, they're just not  
as good)...

These systems' performance is tops in their class,  
Just study the benchmarks, these mini's kick ...  
A whole lotta MIPS here for not that much money,  
This deal would be easy to sell to my honey...

Behold! What's this? More systems to view?  
Santa Cow showed another with a trumpeting moo.  
I sneaked a close look out from under a table,  
4DX2-66V was the label.  
I recognized this "Big Kahuna" machine,  
The one that the editors said would just scream...

Then I saw where she was, in the kitchen she sat,  
Santa Cow having cookies and milk with the cat...

Like icing on top of a wonderful cake,

The Cow filled the stockings with goodies that make  
 A PC productive and more fun to use,  
 Peripherals keep you from singing the blues.  
 The software was Santa Cow's piece de resistance...

Then I heard her exclaim as she drove out of sight,  
 "Happy holidays to all, and to all a good night!"

### Numbers in Numbers

Number names are sometimes embedded in other number names. ONE is in twenty-ONE and in an infinity of other trivial cases. The nontrivial cases are those whose number and number name have no digits in common -- twO huNdrEd, for instance, since 200 doesn't have a 1 in it. For ONE to NINE, here are the smallest trivial and non-trivial cases:

ONE	twenty-ONE	fOrty-NinE
TWO	TWenty-One	
THREE	THiRtEEn	Two HundRED onE
FOUR	FOURteen	Five thOUSand thRee
FIVE	FIfty-seVEN	Four hundred thIrty seVEN
SIX	SIXteen	Seventy-fIve seXtillion
SEVEN	SEVENTeen	Six hundrEd eleVEN
EIGHT	EIGHTEen	onE vIGintillion tHirTy
NINE	NINeteen	seven hundred thIrty-oNE

SEVENTY SEVEN		In the range 1-99, SEVENTY-SEVEN stands out for several reasons. If you look at the list at the left, you'll see that it has the most letters in its embedded number names (62), the largest sum of the numbers represented by its embedded names (162), the most-often-repeated number name embedded in it (SEVEN appears 8 ways), and the most embedded number names (12). Along with a few other number names, it has the most different embedded names (5).
<u>SEVEN</u>		
SEVE	N	
gEV	E N	
SEV	EN	
SE	VEN	
S E	VEN	
§	EVEN	
	SEVEN	
	T EN	
	T E N	
SEVENT	E EN	
SEVENTY		

### Panoramic Number Names

What is the shortest number-name that has ONE through TEN embedded in it? There are 3 cases: (1) the spelling of the embedded names can overlap (letters can be reused), (2) the spelling can't overlap, and (3) the spelling can't overlap and the words must be spelled as soon as possible in order (first occurrences of O,N,E used to spell ONE, then T,W,O for TWO, etc.). Can you construct shorter solutions than the ones given below?

EIGHTY-FIVE THOUSAND SIX HUNDRED SEVENTY-TWO (38 letters)

EIGHTY-FIVE SEPTENDECILLION TWELVE THOUSAND SIX HUNDRED  
 FOURTEEN (57 letters)

SIXTEEN SEPTILLION TWELVE BILLION FOURTEEN MILLION THREE  
 HUNDRED EIGHTY-FIVE (67 letters)