

GUS & JERRY'S GREATEST HITS



AAA TRIVIA BOWL

TOP 100 QUESTIONS OF 25 YEARS

1. Taken from the word "ear," you might use the word "earring" when you're participating in what activity (yes, it's *earring*, not *earring*)?

- A. Mountain climbing
- B. Sailing
- C. Knitting
- D. Fly fishing
- E. Knocking down Red Bull Jager Bombs

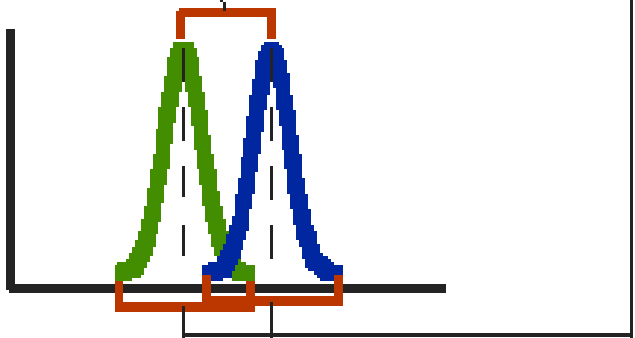
A survey from the U.K.



2. A survey completed by over 3000 adult Brits revealed which pair of sounds to be the “most favorite” and “least favorite” sounds:

- | | | |
|----|-------------------|---------------------|
| A. | Crackling fire | Cell phone ringing |
| B. | Cat purring | Nails on chalkboard |
| C. | Birds singing | Alarm clock buzzing |
| D. | Wine being poured | Children screaming |
| E. | Rain falling | Car horns honking |

Formula look familiar?

$$\begin{aligned} \frac{\text{signal}}{\text{noise}} &= \frac{\text{difference between group means}}{\text{variability of groups}} \\ &= \frac{\bar{X}_T - \bar{X}_C}{\text{SE}(\bar{X}_T - \bar{X}_C)} \\ &= \text{t-value} \end{aligned}$$


The diagram shows two overlapping normal distributions, one green and one blue, on a coordinate system. A horizontal bracket above the peaks of both distributions indicates the difference between their means. A vertical arrow points from this bracket to the 'difference between group means' term in the formula above. Another vertical arrow points from the standard error of the difference (SE) term in the formula to the width of the distributions, which represents the variability of the groups.

3. It's been around a long time, but you still read about "Student's" t-test in our Journals. What was the original "secret" use of the t-test back in 1908?

- A. Used at Cambridge to examine test scores of men versus women
- B. Used by Hawthorne to study worker productivity at General Electric
- C. Used by Chuck Berlin in his germinal research of the use of the ear trumpet with impacted cerumen
- D. Used by the U.S. Government in developing the H-Bomb
- E. Used at Guinness brewery to differentiate beer samples

Welcome to the Township of
EAR FALLS, Ontario



Ear Falls Airport



4. All airports in the world have a three letter code, right? Some make sense and some don't. What city has the code "EAR"?

- A. Bear Mountain, Colorado
- B. Pinna, Italy
- C. Kearney, Nebraska
- D. Dearborn, Michigan
- E. Ear Falls, Ontario

Rumor has it that even
the “Marlboro Man” has used a
cigarette butt for hearing protection!



5. According to Elliott Berger of E-A-R, you could expect about this amount of attenuation at 2000 Hz using a “well fit” cigarette filter (his research was with Marlboro Ultralight):

- A. 4 dB
- B. 10 dB
- C. 16 dB
- D. 22 dB
- E. 28 dB

6. You've maybe heard of "Zwicker tones?"
What is a Zwicker tone?

- A. After-image tone with no physical reality
- B. Dominant frequency in coherence function
- C. Tone required to mask 1 Phon at 1000 Hz
- D. Mating call of Red-Winged Canadian Zwicker
- E. Sound emitted from your Zwicker when you're tired

7. Engineers at Penn State University, through the use of mathematical models and synthesizers, made it possible to hear this sound in true form:

- A. The liberty bell ringing
- B. Benjamin Franklin's voice
- C. The squeal of an aardvark
- D. The squeal of a dinosaur
- E. The squeal of Glen Beck

And even more research from
Penn State!



8. At a recent ASA meeting, Penn State researchers presented a paper related to sound and sports. The results made national news. What was the topic?

- A. Aluminum baseball bats that make a “crack” rather than a “ping” sound
- B. Change in seating to enhance crowd noise at football games
- C. The singing of “air ball” at basketball games
- D. Importance of sound localization in tennis matches
- E. The effects of group humming during synchronized swimming

K•AMP®

high fidelity hearing aids



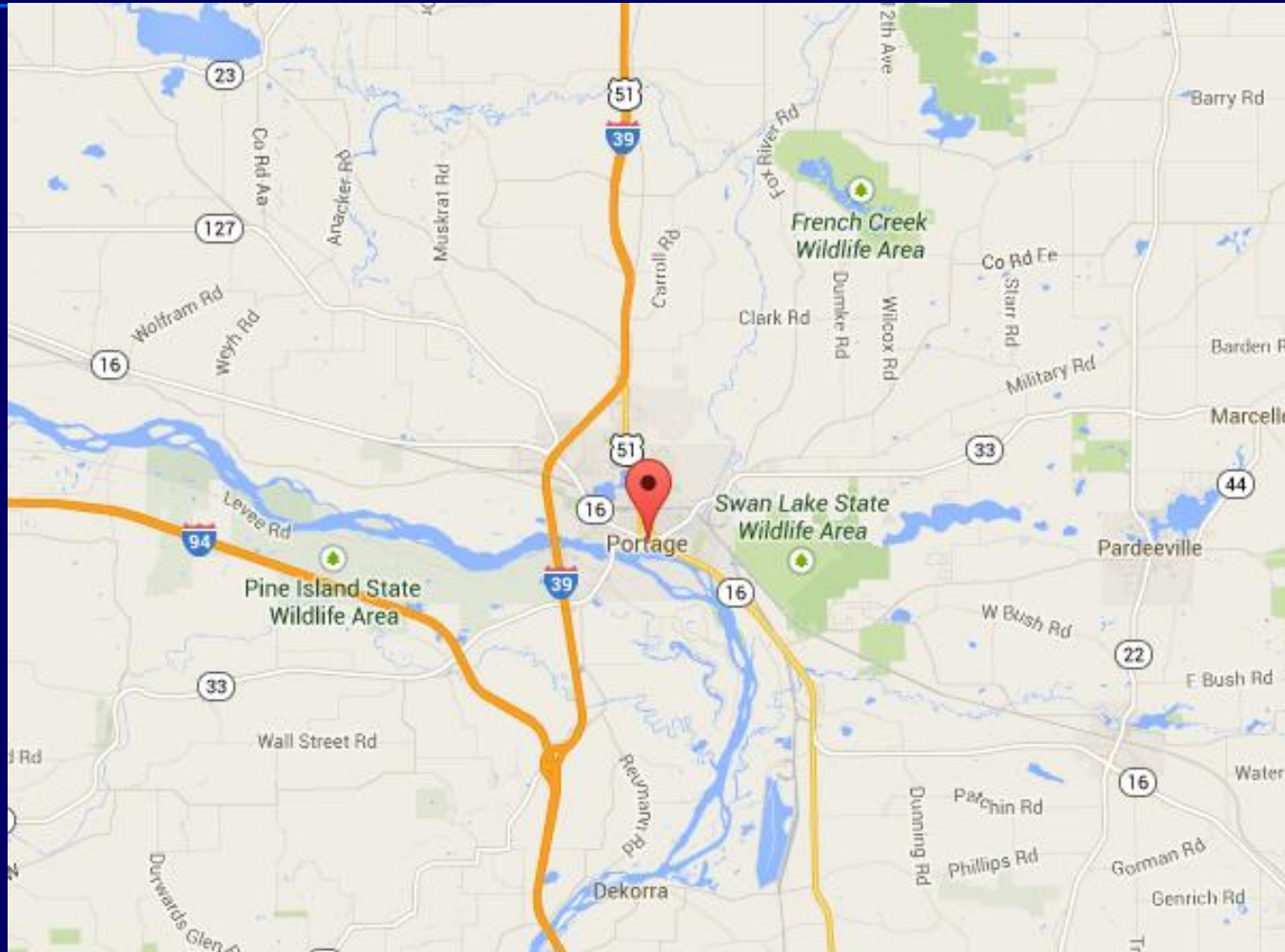
Mead Killion



9. The original Killion K-Amp chip had the initials of several contributors imprinted on it. One of these people went on to develop:

- A. Diaper wipes
- B. Huggie Aids
- C. The BAHA
- D. A probe-microphone system
- E. earTunes.com

Ever been to Portage?



10. What is the connection between Portage, Wisconsin and hearing aids?

- A. It's where Rayovac hearing aid batteries are made
- B. It's where Bret Favre was fitted with his hearing aids
- C. It's where the first 2-cc coupler standards were written in 1947
- D. It's the first city to make induction loop systems mandatory in all its churches
- E. Location of Beltone dealer retirement home

11. In 1949, the *Paravox* company of Cleveland used this stunt to promote the durability of their hearing aids:

- A. Cooked them in an apple pie
- B. Dropped them through a hole in the ice into Lake Erie
- C. Allowed a young Eliot Spitzer take them to the Mayflower Hotel
- D. Dropped them from an airplane
- E. Had Cleveland Indian's pitcher (Herb Score) throw hearing aid to catcher

12. At the Koch Lab, at Caltech in Pasadena, they have been doing some interesting work regarding "Auditory Synesthesia." What is auditory synesthesia?

- A. Localizing sounds in three dimensions
- B. Auditory sensations created by visual stimuli
- C. Fusing speech material after only hearing small bits in each ear
- D. Remembering auditory events (music) while sedated
- E. Hearing that the economy is doing better while watching your 401K turn into a 201K

Interesting way to commute to work!



13. If you were to visit your audiology colleagues at this facility, you would have the option of taking a 500 ft. vertical lift tram to the building.

- A. VA's National Center for Auditory Research, Portland, OR
- B. Bay Audiology, Queenstown, NZ
- C. Purgatory Hearing Center, Telluride, CO
- D. Phonak AG, Stafa, Switzerland
- E. Audifonos Americanos, Lima, Peru

14. This unique event was the culmination of the 1988 AAA Founders meeting in Houston:

- A. The entire group sang "Acronym Jim" in honor of James Jerger's work
- B. Brad Stach and his Houston staff served the group pizza and Shiner Bock
- C. Everyone tossed \$20 in a hat so that there was money to send out membership letters
- D. Everyone signed a sympathy card addressed to the ASHA
- E. The final papers were signed at a sports bar while the group watched the SuperBowl

15. A recently discovered gene, *pejvakin*, has generated much discussion related to auditory neuropathy. What does *pejvakin* mean?

- A. It means "hollow" in Dutch
- B. It means "tiny butt" in Icelandic
- C. It means "bowl" in Polish
- D. It means "echo" in Persian
- E. It means "I'll give it a snort" to Charlie Sheen

When were these products introduced? And what do they have to do with audiology?



16. All of these paired events but one happened within 5 years of each other. What events are separated by over 10 years?

- A. Hamburger Helper introduced—ABR explained by Jewett
- B. Reese's Pieces introduced--Kemp describes OAEs
- C. Tostitos introduced-Cy Libby produces horn earmold
- D. Tabasco introduced—Helmholtz describes his resonance
- E. Miracle Whip introduced—Otto Metz describes bridge for acoustic reflex measures

Recognize the lake?



17. In 1827, using exploding gun powder and two moored boats at a fixed distance, the speed of sound in water was first measured on this lake:

A. Lake Erie

B. Lake Placid

C. Great Salt Lake

D. Lake Como (Italy)

E. Lake Geneva (Switzerland)

At the Infirmary . . .

Hey Bob—I think it's
another case of
"Amblyaudio"



18. Related to research at Mass Eye and Ear, the newly coined term “amblyaudio” has been tossed around in the lay press lately. This term more or less refers to:

- A. Auditory hallucinations
- B. Auditory deprivation
- C. Auditory localization
- D. Hyperacusis
- E. Hereditary amblyosis

PHANTOM RINGS!



19. If you're an average group, 2/3 of you have "heard" your cell phone ring when it wasn't ringing. The accepted term for this is:

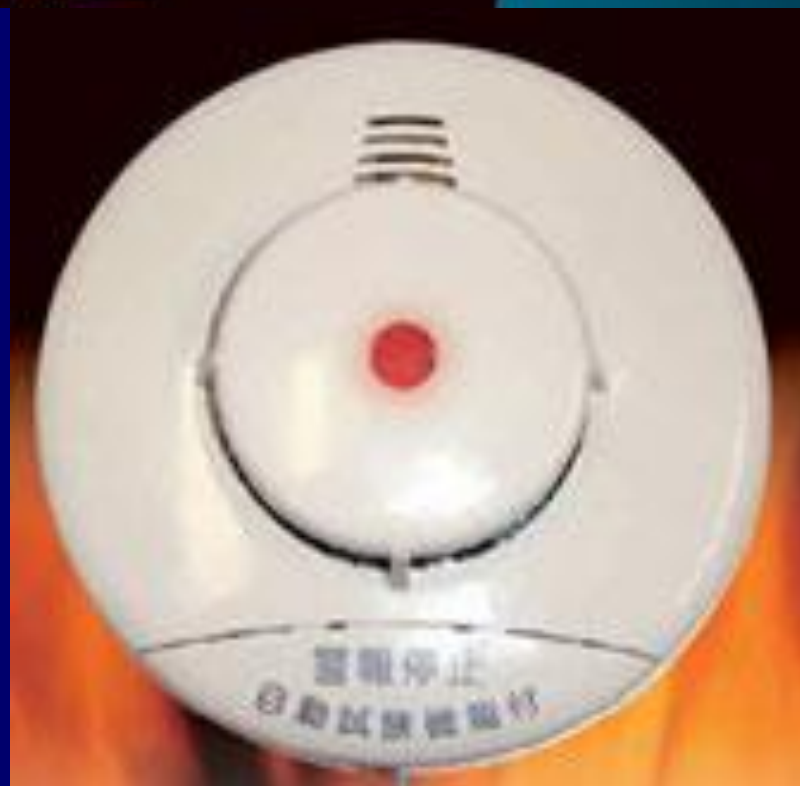
- A. Phonefools
- B. Ringxiety
- C. Cellfaux
- D. Surrealrings
- E. Intoxicated

総出火件数57,487件、出火原因のトップは「放火」及び「放火の疑い」の総件数12,263件発生、全火災の21.3%。(18年3月総務省発表)

火災の発生を指定先へ携帯電話から警報音でお知らせします！

自動通報機能付き「煙式火災警報器」

実用新案申請中



20. A new smoke detector has been developed in Japan for the severely hearing-impaired. When smoke is detected, it sprays out the synthesized smell of:

A. Skunk

B. Rotten fish

C. Pig manure

D. Ammonia

E. Wasabi

Any prudent audiologist, of course, knows the words to the *1st verse* of the children's song:
"Do Your Ears Hang Low?"



But how well do you
know the *4th verse*?

Do your ears fall off

When you give a great big cough?

Do they lie there on the ground

Or bounce up at every sound?

Can you stick them in your pocket

????????????????????????????????

21. What is the line that follows "Can you stick them in your pocket?"

- A. Like your favorite locket
- B. With a key so you can lock it
- C. Just like Davy Crockett
- D. With the speed of a rocket
- E. With Toad The Wet Sprocket

Some background for the next question:

In an effort to go green, a major company introduced a 100% compostable bag for one of its products about two years ago. Seemed like a good thing.

The problem: when the bag was crumpled, the noise was 15-20 dB louder than other chip bags (a Facebook page on the topic had 44,000 friends).

Sales dropped by 15% and the product was pulled from the market.

22. What was the product contained in the “noisy” bag?

- A. Cheetos
- B. Fritos
- C. Ruffles (with ridges)
- D. Doritos
- E. Sun Chips

23. What is an "ormer" and what does it have to do with hearing or ears?

- A. An Italian pasta shaped like an ear
- B. Shell fish with shell shaped like an ear
- C. Device used for leather work shaped like an ear
- D. Mountain flower that has leaves shaped like an ear
- E. Diamond brooch shaped like an ear, recently stolen by Lindsay Lohan.

24. What is an "orecchietta" and what does it have to do with hearing or ears?

- A. An Italian pasta shaped like an ear
- B. Shell fish with shell shaped like an ear
- C. Device used for leather work shaped like an ear
- D. Mountain flower that has leaves shaped like an ear
- E. Diamond brooch shaped like an ear, recently stolen by Lindsay Lohan.

25. A recent study with over 3,000 adults shows a link between the presence of cotinine in the blood and hearing loss. What is *cotinine*?

- A. By-product of caffeine (contact with Starbucks)
- B. By-product of nicotine (contact with Virginia Slims)
- C. By-product of equine (contact with Roy Rogers' horse, Trigger)
- D. Substance found in sildenafil (contact with Viagra)
- E. Substance found in quinine (contact with Gin and Tonics)

According to Guinness Records, this is
the quietest place on the earth:
Orfield Laboratories in Minneapolis



26. Just how quiet is it in the anechoic chamber at Orfield Laboratories?

A. +7.6 dBA

B. +3.6 dBA

C. -1.4 dBA

D. -5.4 dBA

E. -9.4 dBA

Most of you have seen reference to the “Blue Mountains Hearing Study” which examined age-related hearing loss for a large population.



27. This research studied the population of what Blue Mountain region?

- A. Blue Mountains of Oregon
- B. Blue Mountains of Virginia
- C. Blue Mountains of Jamaica
- D. Blue Mountains of Australia
- E. Blue Mountains of Coors



John Draper Then



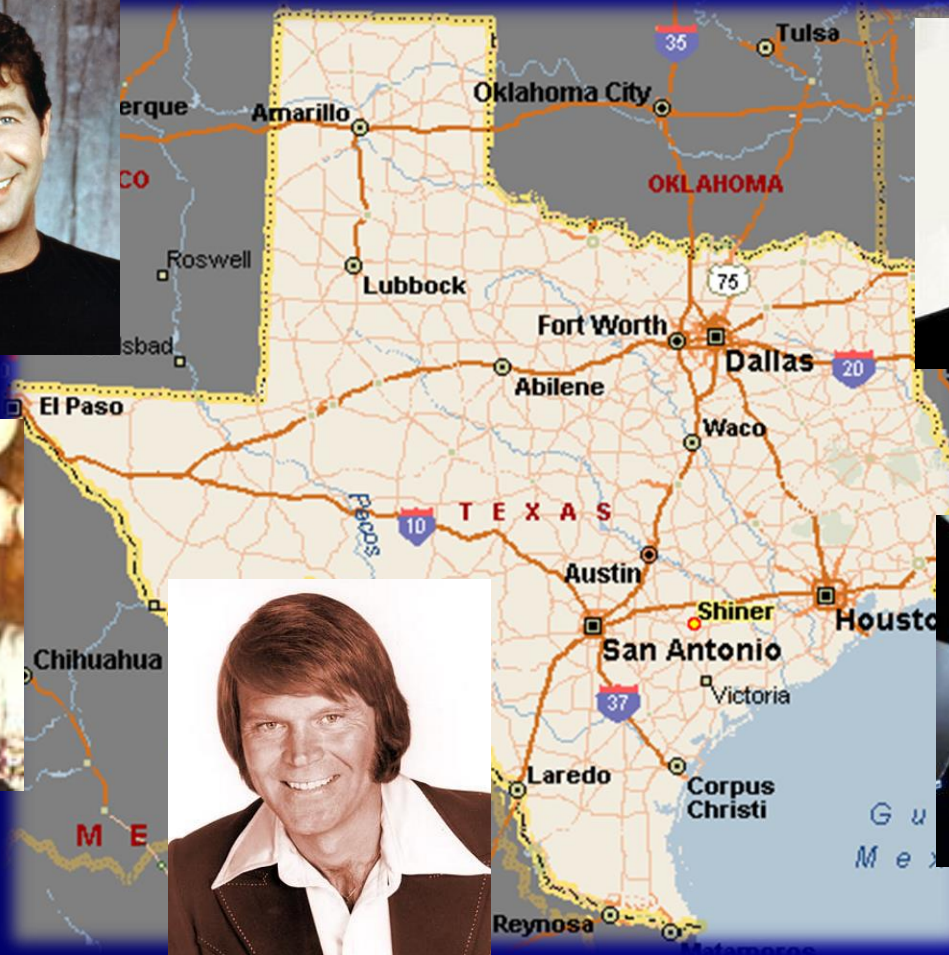
John Draper Now

28. In the early 1970s, John Draper went to jail for using a CAP'N CRUNCH whistle to make free phone calls. What was the frequency of the whistle?

- A. 500 Hz
- B. 1200 Hz
- C. 1900 Hz
- D. 2600 Hz
- E. 3300 Hz

Audioprosthology, Country Music and Texas!

*Will you be able to
make the connection?*



29. Audioprosthology was founded in Texas in 1976. This balladeer had a huge hit singing about the Texas city where it was birthed:

- A. Blake Shelton
- B. Marty Robins
- C. George Strait
- D. Glen Campbell
- E. Mac Davis

The Bajau are traditionally from the islands of the Sulu Archipelago, as well as parts of the coastal areas of northern Borneo. There currently are about 900,000 Bajau in the Philippines and Malaysia



30. The ears of the Bajau are purposely perforated during childhood. Why?

- A. Believed to prevent earcanal exostosis
- B. Cultural aspect of puberty ritual
- C. Home remedy for middle ear infections
- D. To facilitate deep sea hunting
- E. To prepare them for a Carnival Cruise

If you fit hearing aids, you know all about 10A batteries. Developed in the mid-1980s by Rayovac, this smaller size helped fuel the development of CICs



31. What is the reason behind the use of the number “10” in the 10A battery?

- A. The cell is 10-mm wide
- B. It is about 75% the size of the 13 battery
- C. It contains 10 decigrams of zinc
- D. It was expected to last 8-10 days
- E. Named after Bo Derek—the movie “10”

Throughout history, there have been
“reports” about the external ear



32. All of the following involve the external ear, but only one event relates to the *left ear*. Which one?

- A. The ear that was cut off Malchus by Simon Peter during the arrest of Jesus
- B. The severed ear found in a field in the movie *Blue Velvet*
- C. Van Gogh's slicing of his own ear.
- D. The Mike Tyson "bite" of Evander Holyfield
- E. Frank Netter's classic ear anatomy illustration

Although there really isn't conclusive evidence, ABC News recently reported that there is a link between earwax and heart attacks



33. The ABC Report stated that you are more likely to have a heart attack if your earwax is:

- A. Dry and brittle
- B. Wet and sticky
- C. Unusually light colored
- D. Unusually dark colored
- E. Lodged on the end of a Chevy truck key

34. *Borborygmus* is the scientific name of the sound which we normally associate with:

- A. Nose snorting
- B. Belching
- C. Growling stomach
- D. Love making
- E. Flatulence

You all watched the final episode, right?



F·R·I·E·N·D·S

35. In the famous final episode of the TV sitcom *Friends* (May 6th, 2004), who did Joey promise to purchase hearing aids for?

A. Phoebe

B. Monica and Chandler's boy

C. Monica and Chandler's girl

D. The dog at Central Perk

E. The duckling in the foosball table

36. The first movie on TV with closed captioning was shown March of 1980 on ABC. The movie was:

- A. The Muppet Movie
- B. The Jerk
- C. Kramer vs. Kramer
- D. Force 10 From Navarone
- E. The Helen Keller Story

A few examples of "Bill's Bar"



ograph Copyright © 2006 Bills NYC

BILLS BAR

**PROTEAN COLLECTIVE
CD RELEASE PARTY**

**THURS. NOV. 15TH
8 PM DOORS
10 BUCKS
18 PLUS**

**PROTEAN
COLLECTIVE**



37. What's the connection between "Bill's Bar" and audiology?

- A. Standard for the highest background noise SPL allowed on space shuttle
- B. Bony shelf which is landmark in nVIII surgery
- C. Narrow strip of the amygdala important for processing speech-in-noise
- D. The term "BILL processing" (for hearing aids) was coined in Chicago's Bill's Bar
- E. C.C. Bunch and Ray Carhart did Fuzzy Navel shots together in Chicago's Bill's Bar

In preparing for our questions, you no doubt read this journal, right?



In a January, 2013 article, it was reported that individuals at sporting events in Michigan are obtaining a noise-induced hearing loss from the "*Fox 40 Classic*"

38. What is the "Fox 40 Classic?"

- A. Aluminum baseball bat
- B. Special "stone" used in curling
- C. Whistle used by referees
- D. Starter pistol used in track
- E. Large megaphone used by cheerleaders

Many of you probably use the Auditec NU#6 word list that is ordered by difficulty, based on the 2003 work of Hurley & Sells.

Ear Hear. 2003 Apr;24(2):111-8.

An abbreviated word recognition protocol based on item difficulty.

Hurley RM, Sells JP.

Department of Communication Sciences and Disorders, University of South Florida, Tampa 33620-8150, USA. rhurley@chuma1.cas.usf.edu

Abstract

OBJECTIVE: The purpose of this investigation was to develop a test methodology that would identify those patients requiring a full 50 item word recognition test and allow abbreviated testing of patients who do not need a full 50 item word recognition test.

DESIGN: Listeners with normal hearing and listeners with sensorineural hearing loss were administered Auditec trade mark recordings of a 50 word NU-6 list(s). From these listener responses, error rates were determined for each word in the NU-6 word pool. The NU-6 lists were then reordered based on decreasing word difficulty and 10 word and 25 word screening tests were developed. The predictive power of the 10 word and 25 word screening tests was then determined based on the 95% critical difference values for word recognition scores. Clinical decision analysis (CDA) was used to assess how well the 10 word and 25 word screening tests predicted 50 word performance.

RESULTS: Data analyses showed: 1) the four NU-6 50 word lists were equivalent in item difficulty; 2) the four NU-6 10 word and 25 word lists were equivalent in item difficulty; and 3) the 10 word and 25 word screening tests have hit rate (HR) values of 93 to 100%, false alarm rate (FAR) values of 0 to 20% and A' values of 0.946 to 1.00 depending upon word configuration and pass criterion.

CONCLUSIONS: The four NU-6 10 word and 25 word screening tests differentiated listeners with impaired word recognition ability who required a full 50 word test from listeners with unimpaired word recognition ability who required only a 10 word or 25 word test.

39. You probably can remember some of the 10 hardest words, but what word did they find was the *easiest*?

- A. Mew
- B. Dime
- C. Gap
- D. Love
- E. Urine

Ears on Mount Rushmore?



40. How many ears (including portions of ears) are carved on Mount Rushmore?

A. 0

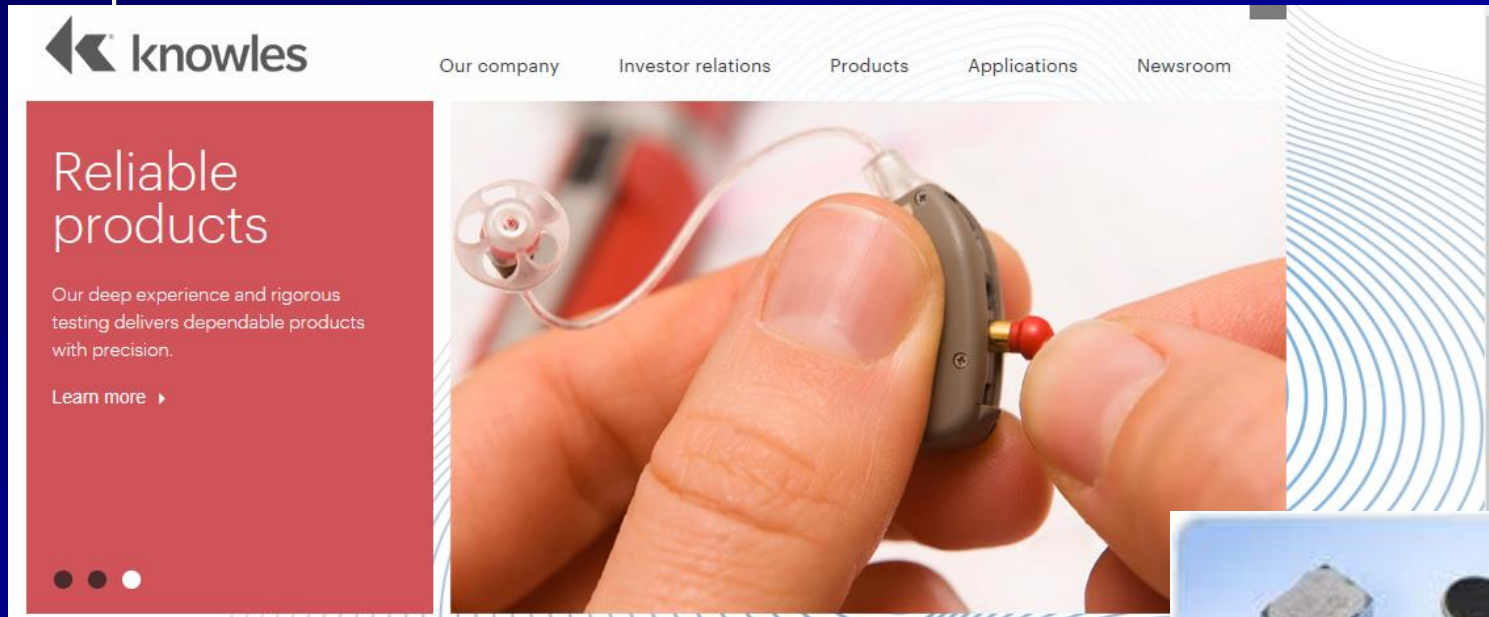
B. 1

C. 2

D. 3

E. 4

Knowles: Provider of hearing aid components for decades



The image shows the top portion of the Knowles website. The header is white with the Knowles logo on the left and navigation links: "Our company", "Investor relations", "Products", "Applications", and "Newsroom". Below the header is a hero section with a red background on the left and a photograph of a hand holding a hearing aid on the right. The red section contains the text "Reliable products" and a sub-headline about experience and testing. The photograph shows a hand holding a small, grey, behind-the-ear hearing aid with a thin wire and a clear earpiece. To the right of the photograph is a decorative graphic of concentric blue circles.

knowles

[Our company](#) [Investor relations](#) [Products](#) [Applications](#) [Newsroom](#)

Reliable products

Our deep experience and rigorous testing delivers dependable products with precision.

[Learn more ▶](#)



41. This historic event was recorded using a Knowles miniature microphone:

- A. Marilyn Monroe singing to Jack Kennedy
- B. Neil Armstrong's first words from the moon
- C. Amelia Earhart's last words
- D. The Watergate tapes
- E. The announcement that ASHA will become ASA

42. You know all about dBHL, dB SPL dBA and even dBC. But what do you know about dBZ?

- A. Used to track birds
- B. Used to track earthquakes
- C. Used to freeze ice cream
- D. Used in hearing protection research
- E. It's a very expensive German zinfandel

Interesting things can happen in an ENG room



43. This historic even happened in an ENG room:

- A. Lyndon Johnson sworn in as president
- B. First heart transplant
- C. Demi Moore's liposuction
- D. Miley Cyrus's birth
- E. Arrest of Charles Manson

The famous “NAL” research site in Australia



44. The researchers at the NAL used hundreds of this U.S. product in several of their studies:

- A. Hot sauce packets from Taco Bell
- B. Chicken buckets from KFC
- C. Plastic straws from McDonald's
- D. Coke cups from Burger King
- E. Plastic forks from Wendy's

Presbycusis or not?



45. The classic 1962 report by Sam Rosen and Moe Bergman suggested that you might not have presbycusis if you're not exposed to noise. What remote tribe did they study?

- A. Kalahari Busmen
- B. Maori of New Zealand
- C. Chukchis tribe of Siberia
- D. Mabaan tribe of Sudan
- E. Kardashian tribe of Southern California



46. "It's a wonderful life" is a classic Christmas movie. How did George Bailey (Jimmy Stewart) obtain his hearing loss?

- A. Mumps
- B. Jumping into cold water
- C. Misuse of an ear candle
- D. Slap from the local pharmacist
- E. A blow from his sled

“Crack” versus “Ping”



47. Aluminum bats make a “ping” sound when the ball is hit. What is the primary frequency of the “ping” that we hear?

- A. 800 Hz
- B. 1400 Hz
- C. 2200 Hz
- D. 3800 Hz
- E. 5100 Hz



48. When you hear music and immediately like it, it's probably because of a template in this brain area:

- A. Hypothalamus
- B. Amygdala
- C. Superior temporal gyrus
- D. Anti-Frontal pole
- E. Anti-Manilow pole

One of the best selling audiometers of all time was the Grason Stadler 1701



49. Rufus Grason named the audiometer "1701" because of his interest in:

- A. Romantic novels
- B. Biblical history
- C. Antique Motorcycles
- D. Star Trek
- E. Trappist ales

It is believed that one of the loudest sounds in the history of the earth was the erupting of Mount Krakatoa (1883) when a cubic mile of rock was sent 17 miles into the air



50. The sound was estimated to be 170-180 dB SPL, audible 3100 miles away. Where is Mount Krakatoa?

- A. Southern Japan
- B. Western Korea
- C. East Indonesia
- D. Northern New Zealand
- E. A little south of Topeka



51. What business was started in this Rocky Mountain cabin in 1959?

- A. Hal-Hen
- B. Westone Earmolds
- C. Joe's colored battery tabs
- D. Auditec of St. Louis
- E. Vicon Hearing Aids

On July 17th, 2011 *NPR Morning Edition* had an audiology-related story that generated many listener complaints. They now have a “warning” on the internet version of this story.



52. What was it about this story that generated all the complaints?

- A. The announcer passed along the “rumor” of a national hearing aid tax credit.
- B. They played the Lil Wayne song “Dizzy” prior to a discussion of vertigo.
- C. They played a continuous pure tone to simulate tinnitus.
- D. The guest audiologist pronounced “coke-lee-ah” as “cock-lee-ah.”
- E. The guest audiologist pronounced “liberal,” as “conservative.”

Old enough to remember the
songs from this 1969 Album?



53. Mis-hearing the song lyric "There's a bad moon on the rise" and thinking you heard "There's a bathroom on the right" is an example of:

A. Malapropism

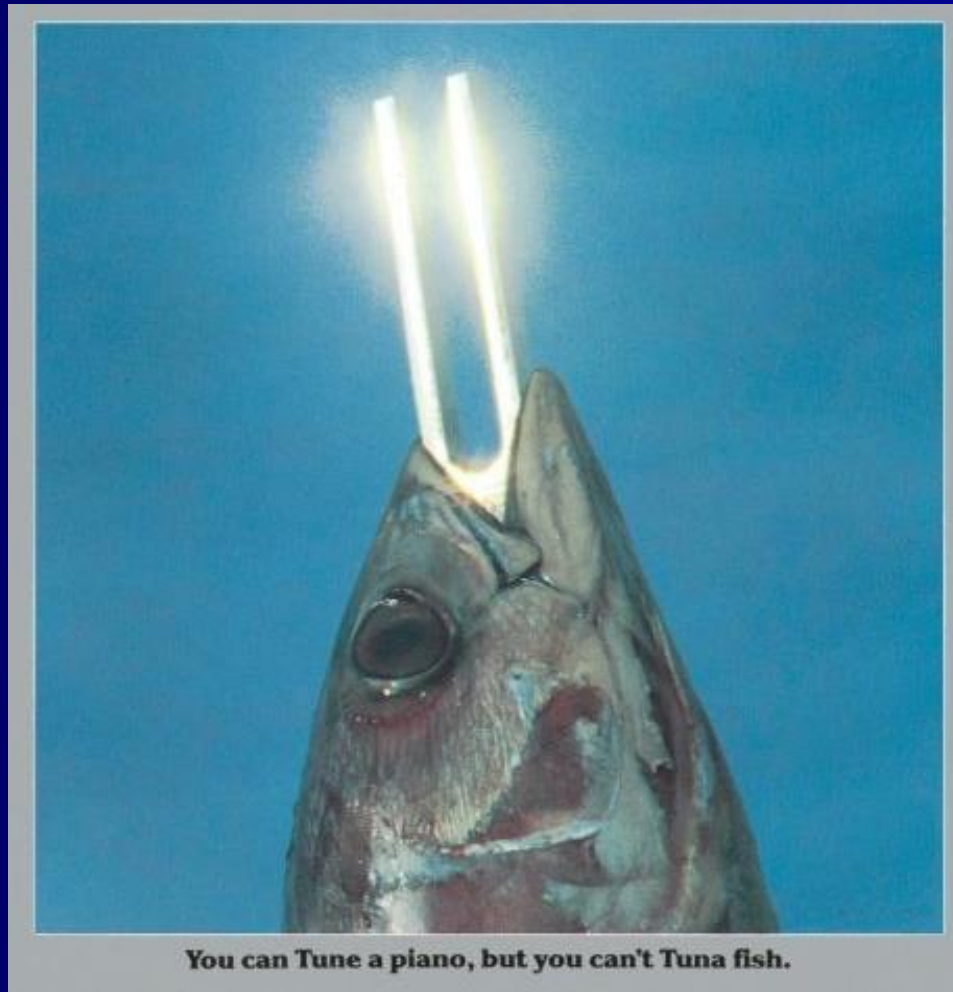
B. Mondegreen

C. Homophonic

D. Holorime

E. Onomatopoeia

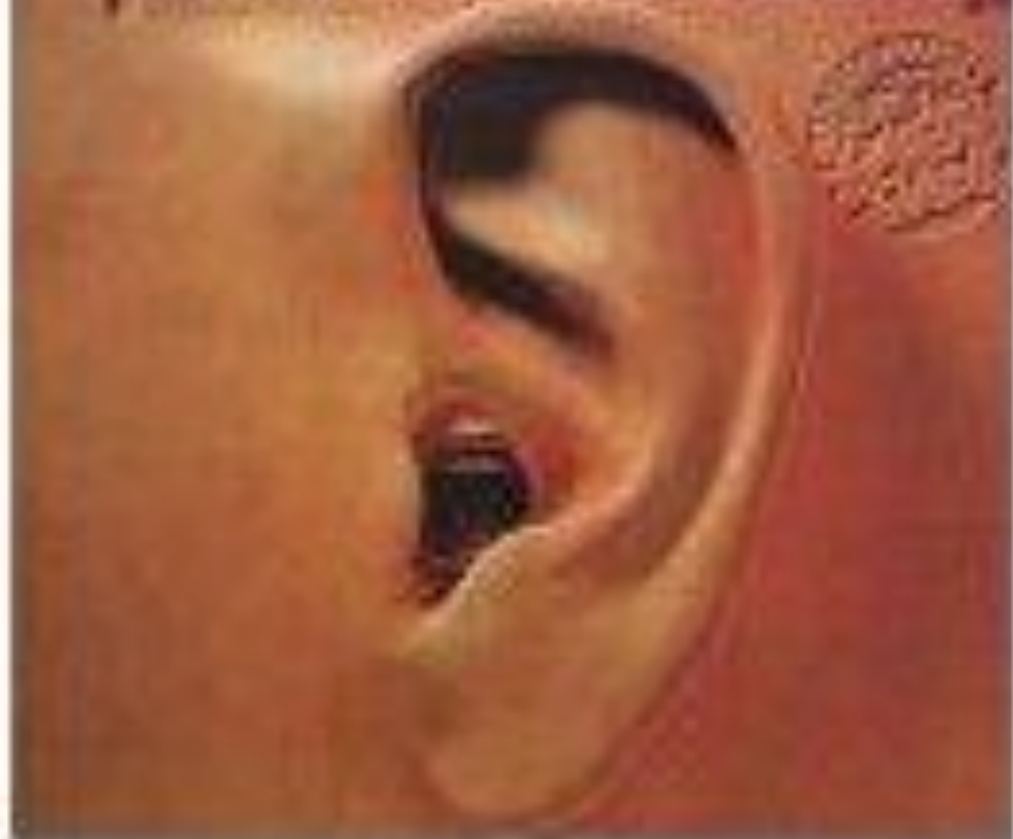
This album cover is from 1978, and the album itself contained the group's first break-out hit.



54. What was the name of the rock group that proclaimed "You can't tuna fish?"

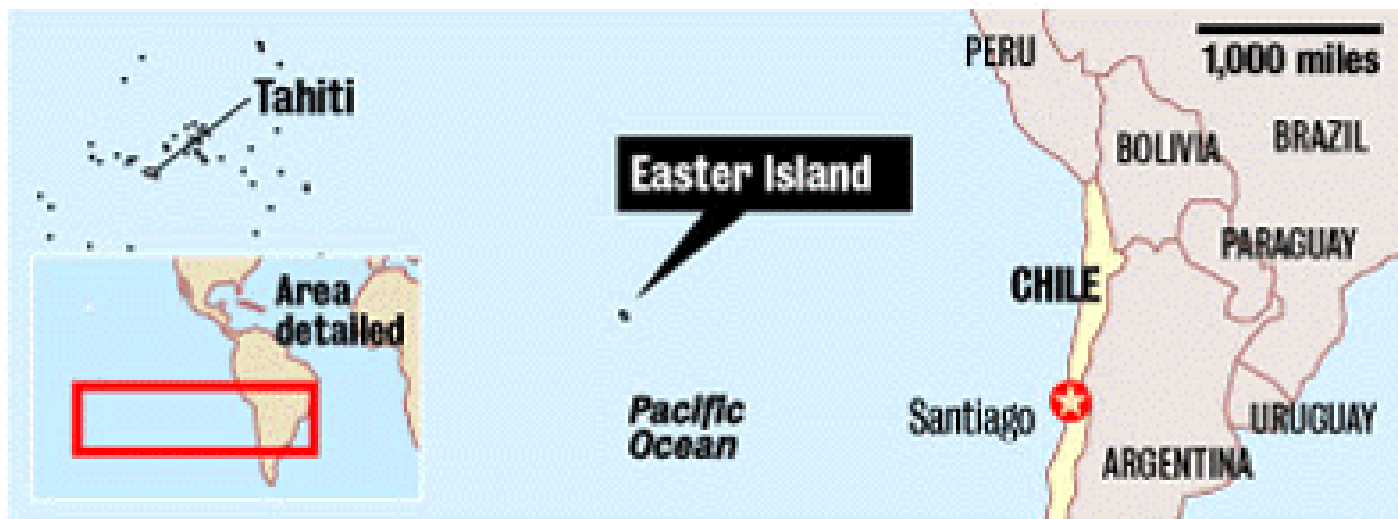
- A. REO Speedwagon
- B. Manfred Mann's Earth Band
- C. STYK
- D. Foreigner
- E. Journey

THE ROARING SILENCE



55. This album contained the song: "Waiter, There's a Yawn in My Ear" Name the group:

- A. REO Speedwagon
- B. Manfred Mann's Earth Band
- C. STYK
- D. Foreigner
- E. Journey



MDT062500

J. WARREN / HERALD STAFF

Check out these interesting ears!



56. Rock carvings on Easter Island reveal that at one time only two classes of people lived there. They were called:

- A. The perky ears and the droopy ears
- B. The red ears and the blue ears
- C. The short ears and the long ears
- D. The round ears and the pointed ears
- E. The hairy ears and the bald ears

57. Research from Goteborg University studying the hearing of 979 men, published in the *British Medical Journal*, found that you are more predisposed to have a hearing loss if:

A. You're short

B. You're fat

C. You're ugly

D. You're bald

E. You can't remember if you're short, fat, ugly or bald

What do you know about this hearing aid company?



58. The Bonavox Hearing Aid Company is best known for this:

- A. The first to use a zinc-air battery
- B. Their CEO was once Miss Universe
- C. They developed the Rastronics probe-mic system
- D. They provided the inspiration for U2's Paul Hewson's stage name
- E. They offer the best free trips for audiologists

59. A common Colorado wildflower sort of resembles an ear, and is therefore named:

- A. Deer's Ear
- B. Mule's Ear
- C. Muskrat Ear
- D. Otter Ear
- E. Cauliflower Ear

60. In Germany, if you say you have an “earworm” (*Ohrwurm*), what do you have?

- A. Tinnitus
- B. Positional vertigo
- C. “Plugged ear” sensation
- D. Catchy tune in your head
- E. A tiny brat in ear-shaped bread

Yes, these speakers have a
wooden cone



61. We know that “wood cone” speakers provide excellent sound quality, but normally the wood would crack. How did JVC’s designer solve this decade-old problem?

- A. Coated the wood with horse hair
- B. Used soft-clipping resistor vector subtraction
- C. Used the “left hand rule” for flux and motion
- D. Used teak saplings for the wood
- E. Soaked the wood in sake’

Remember this ad from 2004?



62. In the weeks preceding Christmas of 2004, iPod commercials used this song, which has an audiologic related title:

- A. "Vertigo"
- B. "Feedback"
- C. "Occlusion"
- D. "White Noise"
- E. "Carhart's Nacho"



63. Yu Zhenhuan, the world's hairiest man, recently made national news when he had ear-related surgery. What was the surgery?

- A. Cochlear implant
- B. Removal of impacted hairballs in the external canal
- C. Implantation of a BAHA
- D. Total ossicular replacement
- E. Hair/Bone gap closure

In the dusty archives, we found a question about the size of men's ears!



64. According to a 1995 article in the *British Journal of Medicine*, men's ears grow this amount over a 50 year period:

- A. Not at all
- B. About 1/8 inch
- C. About 1/2 inch
- D. About an inch
- E. About 1.5 inches

65. It was common for the Vikings of the 9th and 10th century to be buried with what ear-related item?

- A. Hollowed ox horns (used as hearing aids)
- B. Metal "ear muffs" (used in battle for protection)
- C. Small silver knives (used for ceremonial ear piercing)
- D. Brass ear scoops (used for ear cleaning)
- E. CD recordings of monosyllable words (never used at all!)

66. According to research at Cornell University, "The Willies" often can be induced by sounds in this frequency range:

- A. 20 to 50 Hz
- B. 100 to 500 Hz
- C. 1000 to 3000 Hz
- D. 3000 to 6000 Hz
- E. 8000 to 12,000 Hz

67. In 2006, it made national news when it was announced that this "music" could not exceed 85 dBA:

- A. Concerts in New York's Central Park
- B. The oompah bands at Oktoberfest
- C. The anthems played at the Winter Olympics
- D. The trumpet "call to race" at the Kentucky Derby
- E. Anything performed by Yanni

68. What is the relationship between the word "Oo-Mox" and ears and/or hearing?

- A. In parts of Alaska, term given to a husky dog believed to have exceptional hearing
- B. In China, term given to acupuncture of the ear
- C. In Star Trek, term given to the massaging of the ear
- D. In Kenya, name of wooden mask with large ears
- E. In Toledo, term given to large gob of "Oo" which falls out of ear

Many of you know Dr. Tom Powers, Chief
of Audiology Research for Siemens
Hearing, USA



WHAT? You want to know the average SPL of different yard tools? I'm going to have to go on the road and find some "Yard Boys" using these tools, and make the measurements!



Chain Saw (electric)



Weed Whacker (gas)



Leaf Blower (gas)



Shop Vacuum (electric)



Riding Mower (gas)



Just to be helpful, we'll give you the
dBA SPL of the five yard tools

- 88 dBA
- 92 dBA
- 98 dBA
- 103 dBA
- 109 dBA

69. You probably know the loudest and the softest, but what “tool” was in the middle (98 dBA SPL)?

- A. Weed whacker
- B. Lawn mower
- c. Shop vacuum
- D. Leaf blower
- E. Chain saw

A Special Section

In case you haven't thought about it, there are a lot of interesting hearing and ear related things that happen with animals, insects and other non-human creatures. In the next section, we've included some of our favorites. We left out the one that caused the most controversy—where are the ears on a grasshopper? You'll have to track down the story behind that question in an old Audiology Today article.

Know any famous mice?



70. A particular type of mouse has been used in considerable genetic research related to hearing. It goes by the name:

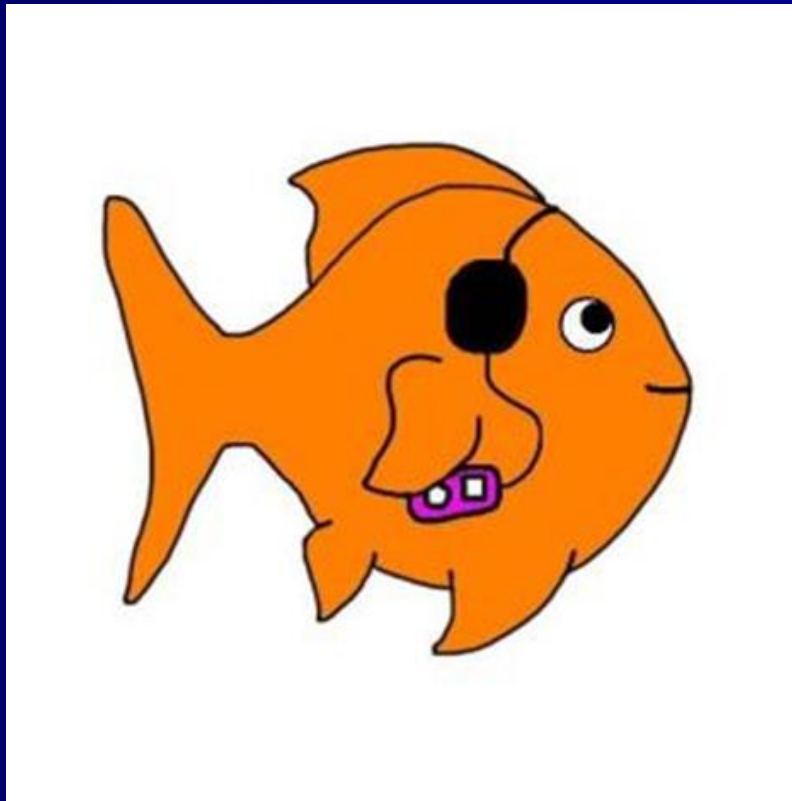
- A. Golden Gate Jumper
- B. Stanford Jogger
- C. Hopkins Hopper
- D. Fargo Footloose
- E. Bronx Waltzer



71. The world famous signing Gorilla, Koko, who knows over 1000 signs, was involved in a \$1,000,000 lawsuit because:

- A. She hit a reporter with a television camera
- B. She signed "George Bush is toilet" on national TV
- C. She signed "Show me your breasts" to a female caretaker
- D. She flipped "the bird" to a visiting professor
- E. She backed out of a circus contract

Goldfish and hearing?



72. At a recent UK "Hearwear" exhibition of futuristic hearing aids, a new device was introduced. It replays the previous 10-seconds to the wearer. Why was it named the *Goldfish*?

- A. It's clear, round, and resembles a gold fish bowl
- B. It's gold, fits behind ear, and looks like a fish fin
- C. It dies two days after you bring it home
- D. Goldfish is the name of the Japanese company that designed it
- E. A goldfish only has 10 seconds of memory

Recognize this “ear-related” insect?



73. According to documents from the 1800s, how did the "earwig" get its name?

- A. Using its back pinchers, it would frequently land on, and pinch the human ear
- B. It's wings look like a human ear when fully extended
- C. It's antennae are thicker than other insects, resembling ears
- D. It frequently would crawl into people's ear canals while they were sleeping
- E. Because of its shape and hairy appearance, it resembled an "ear-wig."

74. A device called the "Mosquito," which emits high intensity pulses at 16,000 Hz was in the news a couple years ago. The Mosquito is designed to:

- A. Train hearing ear dogs in Washington D.C.
- B. Disperse youth groups in the UK
- C. Predict age of wild monkeys in Africa
- D. Attract rare humming birds in Kentucky
- E. Wake Bob Keith from his afternoon nap in Cincinnati

Wrigley was discussed extensively on the national news a few years back



75. What ear/hearing-related event, performed by Wrigley, made national news?

- A. Heard his master's cries for help from two-miles away
- B. Swallowed his master's CICs; both hearing aids worked 3 days later after "emerging"
- C. Sniffed-out his master's previously undetected acoustic neuroma
- D. Retrieved his master's new hearing aid from the bottom of a lake
- E. Informed his master (an audiologist) that his continued comments about "bone scores" could be construed as "teasing."

Walrus? Sea Lion? Seal?



76. Sea lions, seals, and walruses look alike, and are in a scientific group of animals called Pinnipeds. What do you know about their external ears?

- A. They all have external ear flaps
- B. None have external ear flaps
- C. Only sea lions have ear flaps
- D. Only seals have ear flaps
- E. Only walruses have ear flaps

Do you know what your
dog is saying when he barks?
A Hungarian computer does!



77. A recent publication in *Animal Cognition* described a computer algorithm that identifies dog barks (16 Hungarian sheepdogs; 6000 barks). The highest bark identification rate was for?

- A. “Hey—that’s my ball”
- B. “Hey—that’s a stranger”
- C. “Hey—we’re going for a walk”
- D. “Hey—you left me all alone”
- E. “Hey—I just swallowed your undies”

Oh no! Not another 90
degree day. Chirping
that fast just attracts the
wrong kind of babes!



78. *The Farmer's Almanac* says you can closely estimate the temperature by counting cricket chirps. What's the correct formula?

- A. Chirps in 13 seconds +10
- B. Chirps in 13 seconds +20
- C. Chirps in 13 seconds +30
- D. Chirps in 13 seconds +40
- E. Forget it—just an urban (farm) myth

79. In an effort to deter bark beetles in western states, researchers tried several "acoustic deterrence" remedies. Only one of these worked. Which one?

- A. Blasting a Guns "N" Roses song
- B. Ultrasound
- C. Amplified recordings of the bark beetles' own sounds
- D. A loud Rush Limbaugh (played backwards)
- E. The Auditec NU#6 list

Research published last in the journal *Behavioral Ecology* reported some interesting findings about songbirds like the robin. They seem to change their “song” when they move from the country to the city.



80. What aspect of the robin's song has been known to change in the cities?

- A. A decline in the low frequencies.
- B. A decline in the mid-frequencies.
- C. An increase in the low frequencies.
- D. An increase in the high frequencies
- E. They chirp more like Eminem and less like Alan Jackson

The average cat purr is around 25-30 dBA. Smokey has set the world record!



81. How loud was Smokey's official purr (measured at 1 meter) for the Guinness World records?

A. 48 dBA

B. 58 dBA

C. 68 dBA

D. 78 dBA

E. 88 dBA

Some Questions About Personalities

Hallowell Davis is one of the greatest researchers of the early days of audiology.



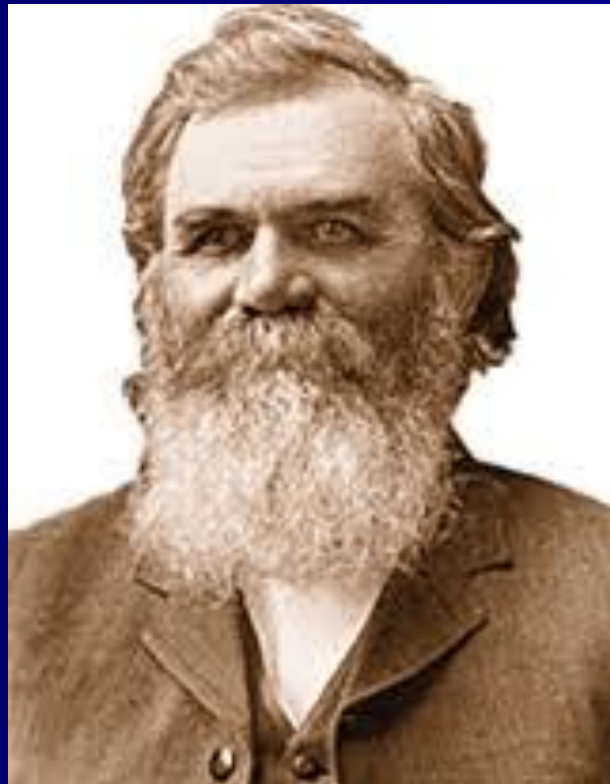
82. Where would you go to find Hallowell's processed temporal bones?

- A. The House Ear Institute
- B. Washington University (St Louis)
- C. Auditec of Saint Louis
- D. Massachusetts Eye and Ear
- E. Louisiana State Medical School (New Orleans)

83. A 1962 article in *Asha* criticizes a *JSHR* article written by James Jerger, saying it was: “patently artificial and difficult to read.” Who said this about Dr. Jerger’s writing style?

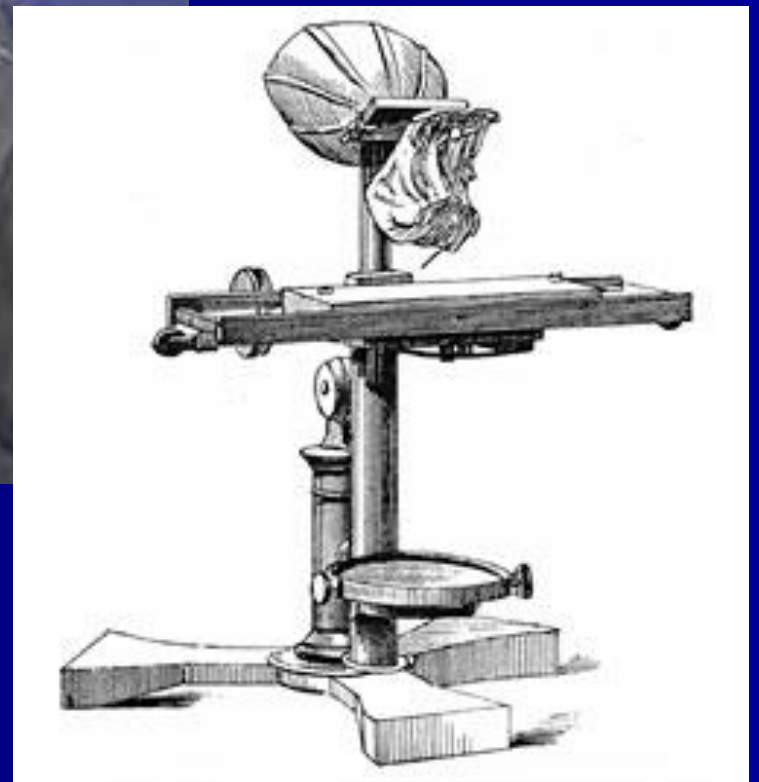
- A. Charles Berlin
- B. Hallowell Davis
- C. Harvey Dillon
- D. Raymond Carhart
- E. James Jerger

On September 18th, 1895, Daniel David Palmer, a grocer in Davenport Iowa, to the amazement of many, made a deaf janitor hear.



84. Daniel Parker soon after became the first ever:

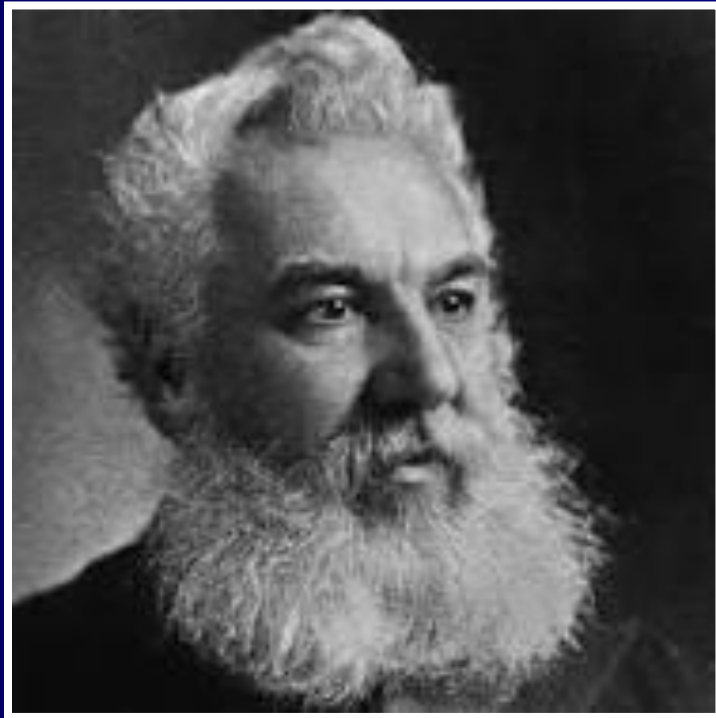
- A. Audioprosthologist
- B. Hearing aid dealer
- C. Osteopath
- D. Dentist
- E. Chiropractor



85. In 1874 Alexander Graham Bell built the "Ear Phonautograph." What was especially unique about this device?

- A. Used the ossicles of a human ear
- B. Used the wheels of his son's roller skates
- C. The pen stylus was developed by Robert Bic
- D. The small tuning forks were from Helmholtz
- E. The speaker diaphragm was from Watson's butt skin.

Bell and Gallaudet



86. Although Edward Miner Gallaudet and Alexander Graham Bell were often adversaries, they did have this in common:

- A. A deaf mother
- B. A deaf wife
- C. A deaf daughter
- D. A deaf dog
- E. A deaf leopard

Orin Cornett and Cued Speech



Consonants

1 A hand with the index finger pointing straight up. /d, p, ʒ/ deep azure	5 A hand with the index finger pointing straight up and the thumb extended horizontally to the side. /m, f, t/ miffed
2 A hand with the index and middle fingers extended horizontally to the side. /ð, k, v, z/ the caves	6 A hand with the index finger pointing straight up and the thumb pointing straight down. /w, l, ʃ/ Welsh
3 A hand with the index and middle fingers extended horizontally to the side, and the thumb extended horizontally to the side. /r, h, s/ rehearse	7 A hand with the index and middle fingers extended horizontally to the side, and the thumb pointing straight down. /θ, g, dʒ/ thug Joe
4 A hand with the index and middle fingers extended horizontally to the side. /b, m, n/ by when	8 A hand with the index and middle fingers extended horizontally to the side, and the thumb pointing straight down. /j, ŋ, tʃ/ young church

Monophthongs

Mouth	Side	Diphthongs Side-throat
 /i, ɜ, ə/ fir tree	 /ʌ, ə, o, ɑ/ Aloha	 /aɪ, aʊ/ time out
Chin	Throat	Chin-throat
 /u, ɔ, ɛ/ too tall	 /ʊ, ə, ɪ/ look at it	 /ɔɪ, eɪ/ Oy vay!

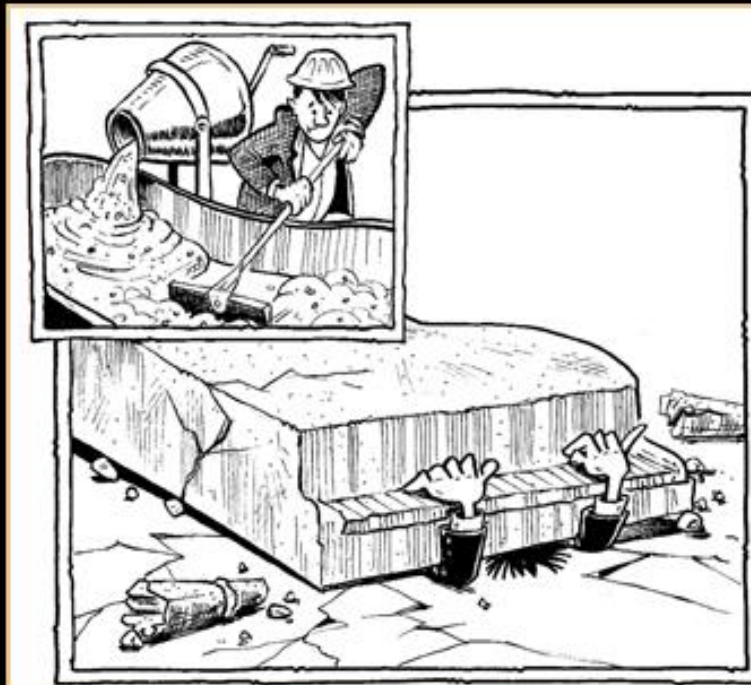
87. In addition to inventing cued speech, Cornett provided this valuable suggestion to the Gallaudet football team:

- A. Bass drum at the line of scrimmage
- B. Overhead light on sideline coach
- C. Post-game hot-tub party with cheerleaders
- D. Flashing light in end zone when whistle blows
- E. Flashing in end zone when whistle blows

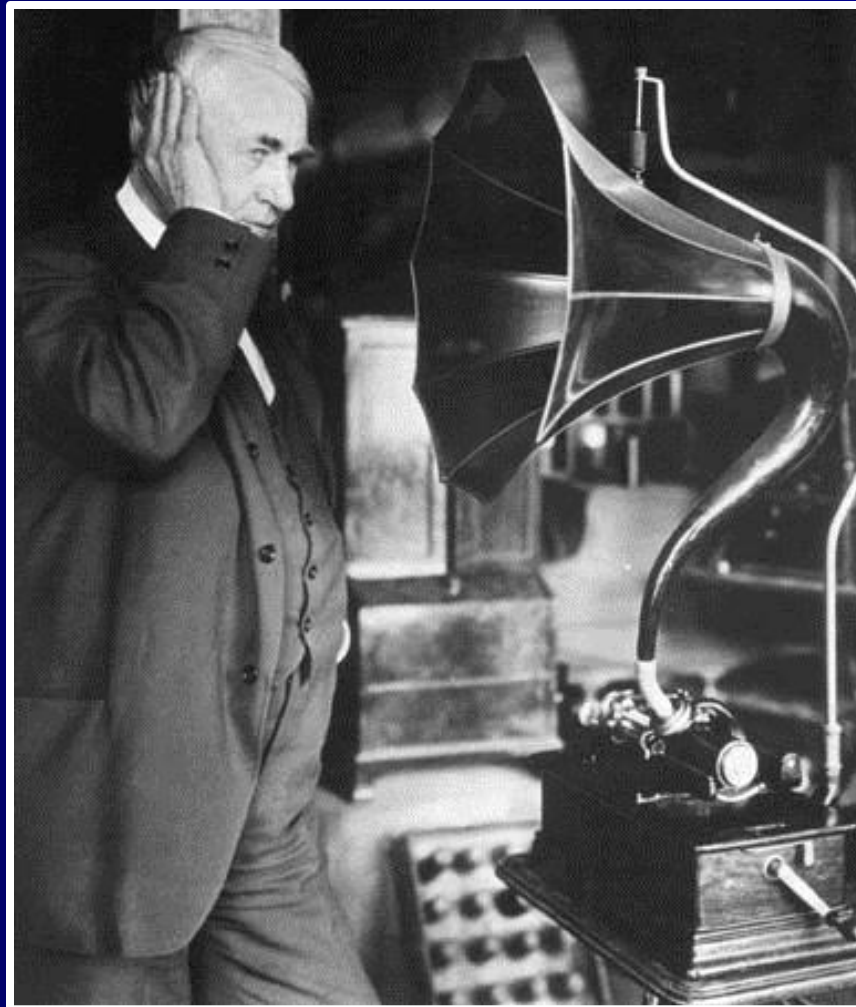
So what does this cartoon have to do with ears and hearing?

Edison's Concrete Piano

Original cartoons by Tom Goldsmith



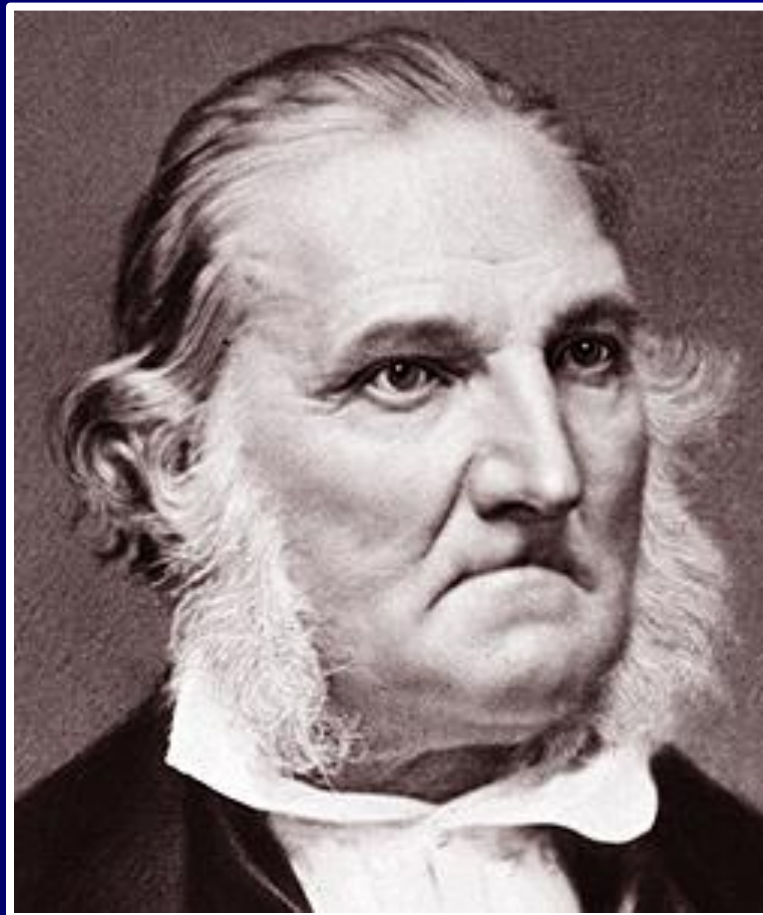
It's commonly believed that some of Edison's inventions, like the concrete piano, were influenced by the fact that he had a hearing loss



88. Edison believed that his hearing loss was a result of:

- A. Scarlet fever
- B. Blow to head during street fight
- C. Being pulled onto moving train by ears
- D. Excessive intake of quinine
- E. Gun noise from hunting birds

The noted John James Audubon,
ornithologist, naturalist and painter,
also had a significant hearing loss



89. Audubon's hearing loss was a result of:

- A. Scarlet fever
- B. Blow to head during street fight
- C. Being pulled onto moving train by ears
- D. Excessive intake of quinine
- E. Gun noise from hunting birds

This individual made news when
he experienced balance problems
in the 1960s



90. Who is the patient who had the balance problems shown in the photo?

- A. James Jerger
- B. John Glenn
- C. Jack Nicholson
- D. Edward R. Murrow
- E. Engelbert Humperdink

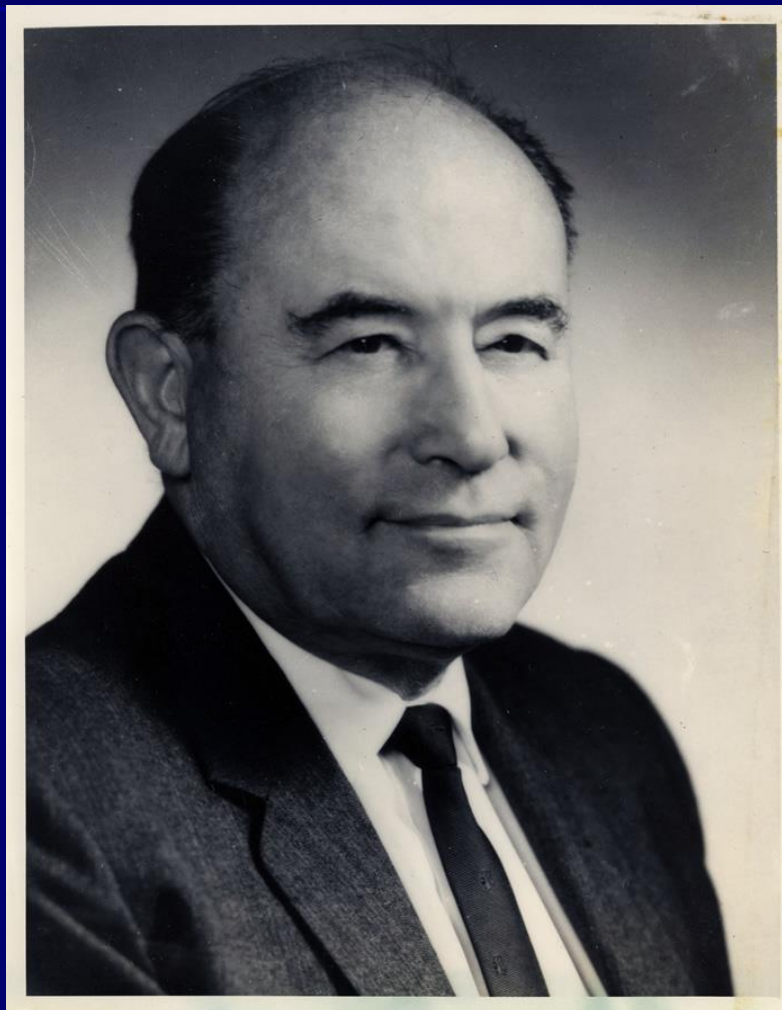
A busy guy—did he have any hobbies?



91. While von Bekesy never married because he thought it would interfere with his work, he did take time to enjoy this hobby:

- A. Collecting Hummel figurines
- B. Sailing
- C. Writing poetry
- D. Knitting
- E. Recording Elvis Presley sightings

Aram Gorig: Early advocate for audiology and one of the founders of the American Auditory Society



92. Dr. Glorig personally collected data for one of his earlier publications at this unusual location:

- A. On a Ferris wheel
- B. In an Iowa corn field
- C. On the Jerry Springer show
- D. Sitting on a speed boat
- E. Sitting on a toilet

Shel Silverstein --
1930 - 1999



93. In what Shel Silverstein song did a man lose a piece of his ear?

- A. Big John
- B. A Boy Named Sue
- C. Ode to Tyson
- D. Put Another Log on the Fire
- E. Purple People Eater

This 1888 photo of Helen Keller and her teacher Anne Sullivan was just discovered few years ago. It's the earliest photo of the two of them together.



94. What was the first word that Helen Keller finger spelled into the hand of Anne Sullivan?

- A. Food
- B. Anne
- C. Water
- D. Doll
- E. Izzle kizzle, fo' schizzle

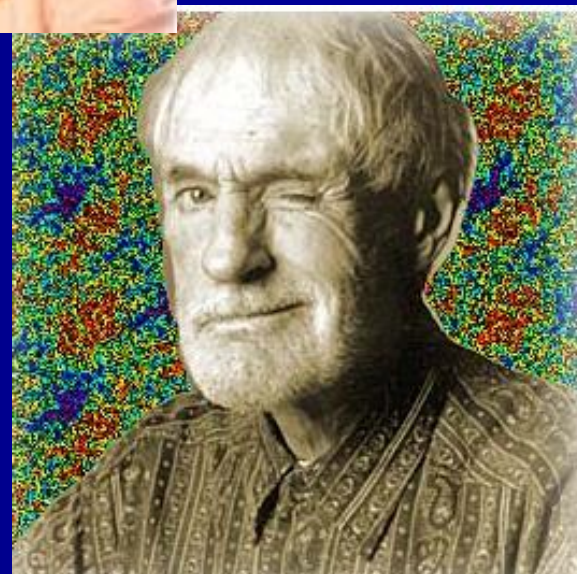
An interesting pair?



95. According to *USA Today*, what ear-related thing do Dolly Parton and Mother Teresa have in common?

- A. They both were treated for severe tinnitus
- B. They both had surgery for otosclerosis at the same hospital
- C. They both wore Mickey Mouse ears for a Disney promotion
- D. They both never showed their ears in public
- E. They both were fitted with hearing aids by Starkey's CEO Bill Austin

Some clues for the next question!



The “Father” of Audiology



96. Working with Captain Carhart and his rehabilitation team at Deshon Army Hospital in the 1940s, this person assisted with psychological counseling:

- A. James Schlessinger (Father of “Dr. Laura”)
- B. Timothy Leary (Father of LSD)
- C. B. F. Skinner (Father of behavioral modification)
- D. Benjamin Spock (Father of children’s behavioral modification)
- E. Jeremy Bieber (Father of children behaving badly)



97. Ole Bentzen was a famous Danish audiologist, but why, after his death did he become *internationally* known?

- A. Lived to be 115
- B. He had an art collection worth over \$50,000,000
- C. Reported to be the only audiologist to understand the SAL test
- D. One of the few people in the world to die from eating ice cream
- E. One of the few people in the world to die from laughing

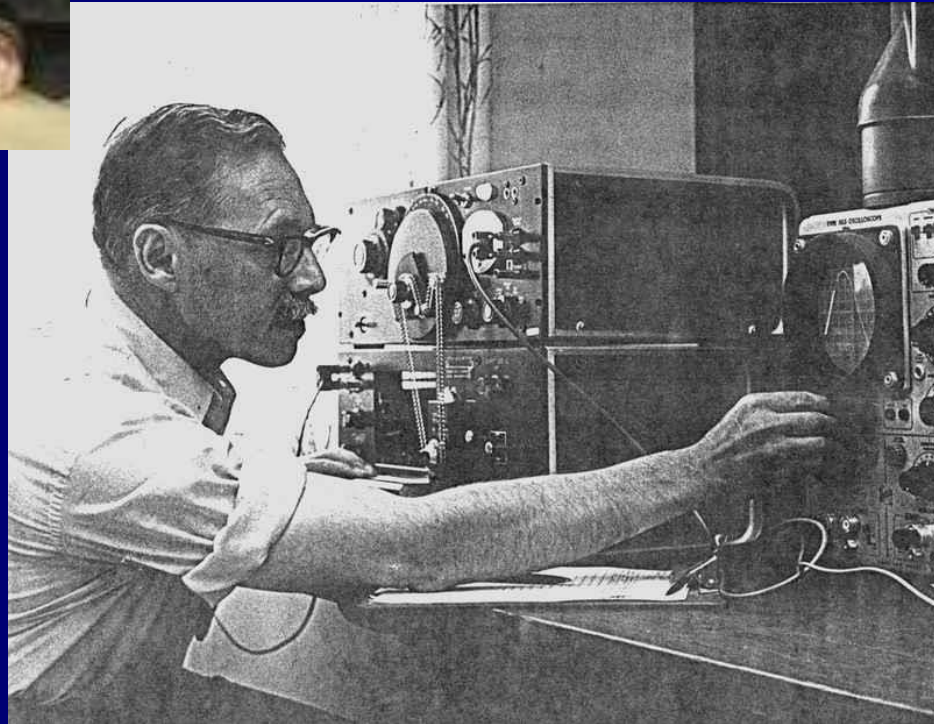
Ira Hirsh: An early pioneer in audiology



98. Ira Hirsh had several unique hobbies. One of which was:

- A. Ice dancing (with his wife)
- B. Triathlons (with his brother)
- C. Spelunking (with his son)
- D. Quilting (with his daughter)
- E. Auctioneering (with Rush Hughes)

Noted hearing scientist, researcher, writer, and entrepreneur Ed Villchur died a few years ago at the age of 94.



99. Which one of the following interesting tidbits is *TRUE* regarding the late Ed Villchur?

- A. He performed with *Country Joe and the Fish* at "Woodstock."
- B. A loudspeaker that he developed is on display at the Smithsonian.
- C. Ben and Jerry named an ice cream after him.
- D. A microphone that he developed went to the moon.
- E. Mead Killion plays a harmonica built by Villchur.

Audiology and Playboy?



100. The only featured article in the history of *Playboy* related to hearing and audiology was about this person:

- A. Otto Metz (pioneering measurement of the acoustic reflex)
- B. Kurt Hecox (early hearing aid DSP development)
- C. Don Jewett (first to describe ABR “bumps”)
- D. Thomas Gold (first to describe OAEs)
- E. Robert Sweetow (first to describe a LACE Teddy)

BONUS ROUND

Each year at the Trivia Bowl, we had a few questions about our members—something that made them a little unique. These tended to be tough questions, as you kind of needed to know the person to know the answer. We eliminated most of them from our "Top 100," but here are a few that we think you might like.

B1. Which one of these “potential” audiology couples are not the names of real audiologists?

- A. Frank Butts and Lisa Potts (Hyphenated name unlikely for this couple)
- B. Delphino Concha and Jim Wax (Do you think they meet down by the canal?)
- C. Carmen Brewer and Bud Light (Carmen recently seen out with Bud Dark)
- D. Jerry Hug and Ed Kish (Yes, they frequently send out Hugs and Kishes)
- E. Cheryl Bone and Richard Gap (We hear they are on a search for “Air”)

NEWPORT FOLK FESTIVAL



FESTIVAL FIELD, NEWPORT, R.I.

JULY 22, 23, 24, 25, 1965

THURSDAY, JULY 22, 8:00 P.M.

THE NEWPORT FOLK FESTIVAL is a unique and exciting event, featuring a variety of folk music from around the world. The festival is held in Festival Field, Newport, R.I., and is open to the public. The festival is a celebration of folk music and is a must-see event for anyone who loves music.

FRIDAY, JULY 23, 8:00 P.M.

THE NEWPORT FOLK FESTIVAL is a unique and exciting event, featuring a variety of folk music from around the world. The festival is held in Festival Field, Newport, R.I., and is open to the public. The festival is a celebration of folk music and is a must-see event for anyone who loves music.

SATURDAY, JULY 24, 8:00 P.M.

THE NEWPORT FOLK FESTIVAL is a unique and exciting event, featuring a variety of folk music from around the world. The festival is held in Festival Field, Newport, R.I., and is open to the public. The festival is a celebration of folk music and is a must-see event for anyone who loves music.

SUNDAY, JULY 25, 8:00 P.M.

THE NEWPORT FOLK FESTIVAL is a unique and exciting event, featuring a variety of folk music from around the world. The festival is held in Festival Field, Newport, R.I., and is open to the public. The festival is a celebration of folk music and is a must-see event for anyone who loves music.

CHILD WORKSHOPS AND PANELS

Evening Concerts: \$1.00, \$1.50, \$2.00, \$5.00

ALL SEATS RESERVED - FOR TICKETS & INFORMATION WRITE:
NEWPORT FOLK FESTIVAL, NEWPORT, R.I.



B2. This famous audiologist not only performed at the folk festival, but performed on stage at other venues with the likes of folk legends Pete Seeger and Joan Baez:

- A. Lu Beck
- B. Barbara Weinstein
- C. Jane Madell
- D. Angela Lovenbruck
- E. Carol Flexer

In 2013, Laura Wilber was the recipient of the Academy's Distinguished Achievement Award



Unrelated to camels, 25-30 years ago, Dr. Wilber was the only female subject in a somewhat unusual research project.

B3. What was Dr. Wilber required to do in this study?

(yes, it was published and relates to audiology)

- A. Sit next to the KEMAR during a performance of the Chicago Symphony
- B. Sit in the Wrigley Field roof-top bleachers wearing a decimeter at a Cub's game
- C. Eat Dorito chips
- D. Play a bucket drum
- E. Drink Fuzzy Navel shots with C.C. Bunch and Carhart at Chicago's Bill's Bar



B4. What do those four “mature” audiologists have in common?

- A. All were born in the same year
- B. All failed the ASHA CCC-A exam
- C. All had two different *JAAA* article submissions rejected
- D. All lost their bid to be elected president of the AAA
- E. All were dumped by the same female audiologist (during young single days, of course)

Trivia Host Northern



B5. Noted Trivia Bowl Host Jerry Northern wore sunglasses continuously at the first AAA meeting (1989) in Kiawah Island. Why?

- A. Eye injury from skiing
- B. Botched blepharoplasty
- C. Eye injury from scuba diving
- D. Stress-related photophobia
- E. Thelma and Louise were looking for him

And of course, we just had to add a few
Bonus Questions from our favorite journal:
Beer and Hearing!



Title: Prospective study of alcohol use and hearing loss in men

Ear and Hearing, 2011, 32(1)



- 26,809 professional medical men aged 40 to 74 enrolled in study in 1986
- Hazard ratios adjusted for 18 potential covariates
- Hazard ratios established for five different levels of consumption for four different alcoholic drinks:
 - beer
 - white wine
 - red wine
 - liquor

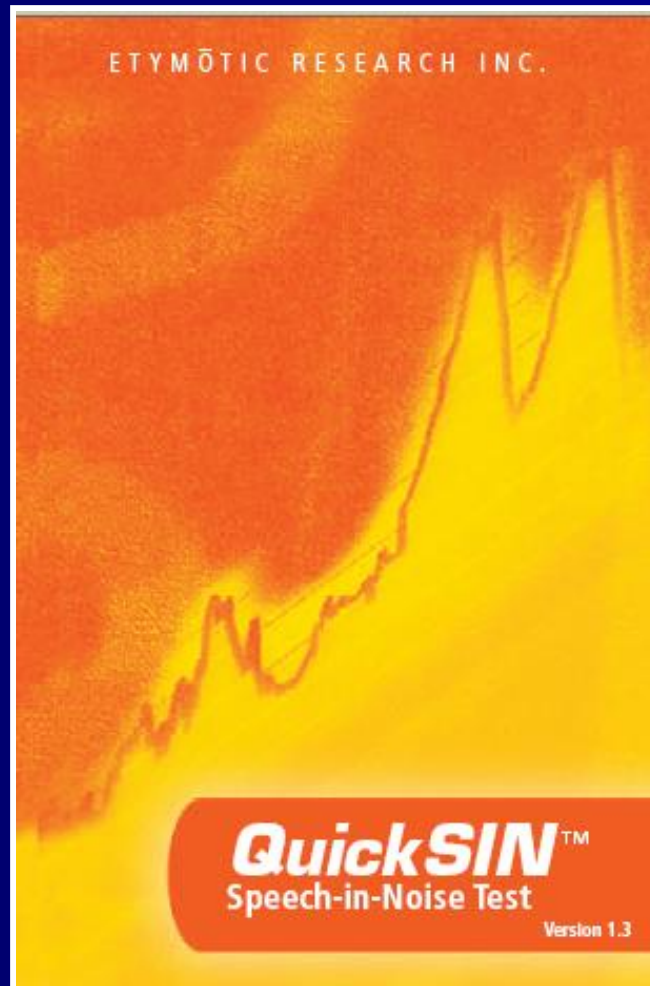
B6. Which of the following is a *TRUE* statement regarding the hazard ratios for participants who had >1 beer/day?

- A. Ratio was worse than people who drink >1 white wine/day
- B. Ratio was worse than people who drink >1 red wine/day
- C. Ratio was worse than people who drink >1 liquor/day
- D. Ratio was worse than people who do not drink beer at all
- E. Ratio was considerably better than the folks who always sat at the back tables of the Trivia Bowl

B7. One of the following statements from our *Beer and Hearing* files is from published research—the other four we made up. Which is the true statement?

- A. Older individuals who are heavy beer drinkers (>4/day) are more apt to have normal hearing than those who do not drink.
- B. Beer tastes better when accompanied by a pure tone (510-520 HZ)
- C. When consumed in a dark anechoic chamber, only 42% of experienced drinkers can distinguish Guinness from Corona
- D. For males, performance on a dichotic CV task improves after two beers
- E. After four or five beers, some trivia players say they can hear Rush Hughes whispering the answers

How well do you know the sentences from this test?



B8. One of the following “beer” sentences is from the original Harvard (IEEE) list, and part of List 8 of the QuickSin:

- A. These days a fresh beer is a rare find
- B. Beer is often served in glass mugs
- C. The stale smell of old beer lingers
- D. This is the season for beer on the porch
- E. Beauty is in the eye of the beer holder

B9. A study conducted in France examined beer consumption related to background noise in a bar (72 dBA vs. 88 dBA). They found that when the noise was louder:

- A. People drank faster and drank more
- B. People drank faster, but did not drink more
- C. People drank slower and drank less
- D. People drank slower but did not drink less
- E. The level of the noise had no effect

B10. This individual, who recently was named “#1 Beer Drinking President” also was one of the few Presidents who acknowledged having a hearing loss while in office.

- A. Grover Cleveland
- B. William Howard Taft
- C. Ulysses Grant
- D. Theodore Roosevelt
- E. Samuel Adams

You gotta' like a beer named "DB"



B11. Where would you need to travel to find the DB brewery?

- A. Puerto Rico
- B. Singapore
- C. Australia
- D. New Zealand
- E. Jamaica

How about a shout out for our favorite Californian "Audiology Beer"

Aud Blonde Ale

Blonde Ale

Easy drinking low alcohol brew! Grapefruit, nutty, dry-perfect for warm summer day.

Availability

Pub, some accounts locally, draft only, year-round

Original Gravity:	1.044
Alcohol by Volume:	4.5%
Color:	Blonde
Bitterness:	Mild



But this is a pretty darn good
“Audiology Beer” too!

AUDIBLE ALE

FILL YOUR PASSION BUCKET WITH CRUSHABLE CRAFT.

1001



watching sports: plenty of flavor and aroma, and crushable enough to make you want another — without making you sloppy by halftime. So, whether you're watching the Dan Patrick Show in your mancave, or tailgating in a parking lot, it's time to fill your passion bucket with crushable craft. Listen to your thirst. It's Audible.

STYLE	Pale Ale
ABV	4.7%
IBUS	22 IBU
ORIGINAL GRAVITY ..	degrees plato
BREWED SINCE	2012

B12. What state would you go to
witness the brewing of Audible Ale?

*A Little Clue: There are wineries
within walking distance!*

- A. California
- B. Oregon
- C. Washington
- D. Colorado
- E. Texas

A Good Ear Beer!



B13. Our research says that there are only a couple "ear beers" One is *Rabbit Ears* beer, named for the Rabbit Ears mountain pass. Where is Rabbit Ears pass?

- A. Arizona
- B. Oregon
- C. Washington
- D. Colorado
- E. Maine

Rabbits not for you? How about Pigs?



B14. Where would you go to find the brewery of Pigs Ear?

- A. New York
- B. Vermont
- C. New Hampshire
- D. Massachusetts
- E. Maine

B15. This popular Colorado micro-brewery has the slogan (and t-shirt): "I'd give my left ear for a _____ beer."

- A. Dillon Dam
- B. Tabernash
- C. Left Hand
- D. Tommyknocker
- E. Flying Dog

And of course, with all this “ear beer” you need an Ear Bar. The Ear Inn is the oldest working bar in this city.



B16. Where would you go to have a cool one at the famous “Ear Inn?”

- A. New York City
- B. Boston
- C. San Francisco
- D. Nashville
- E. Chicago

The End: According to the Academy officials, Mueller and Northern consumed this amount of beer while conducting the Trivia Bowl for 25 years:

- A. 0 bottles
- B. 50 bottles
- C. 150 bottles
- D. 250 bottles
- E. Just enough

CHEERS!

