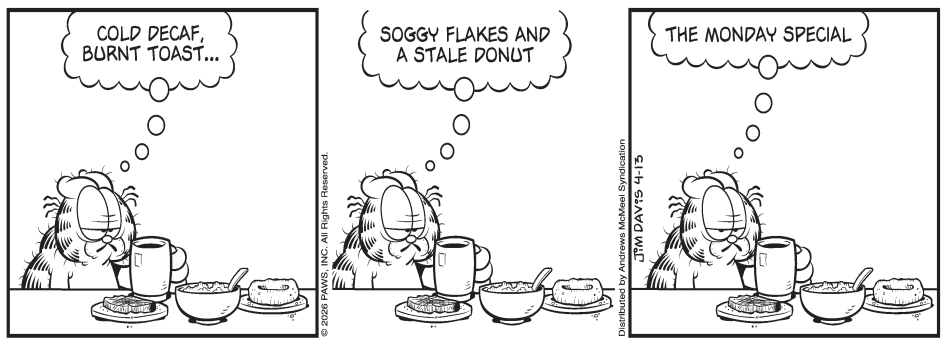
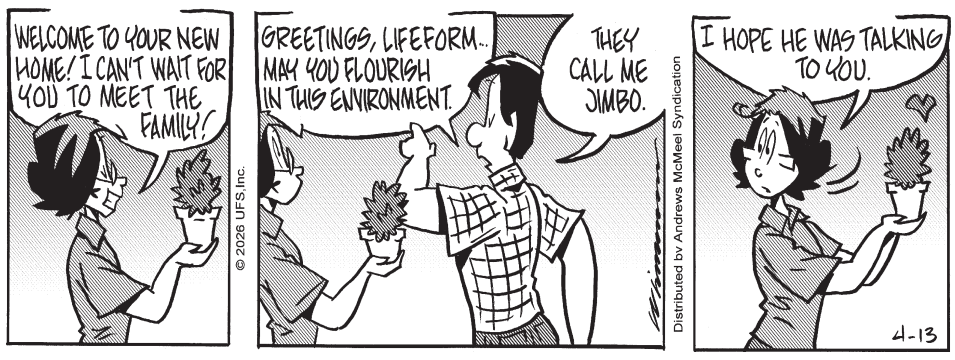
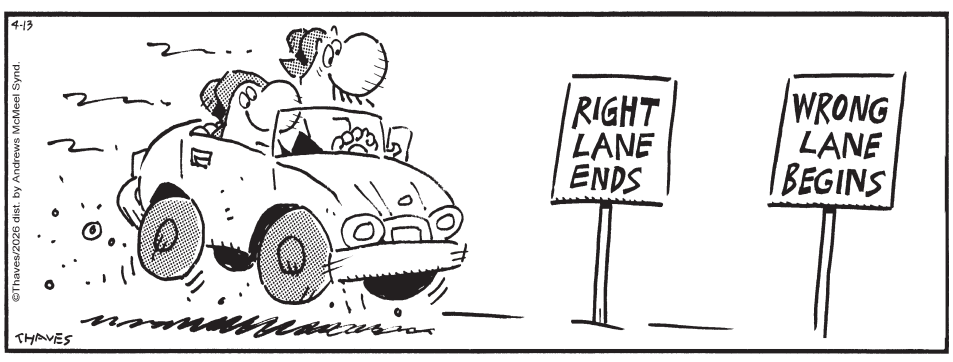
GARFIELD



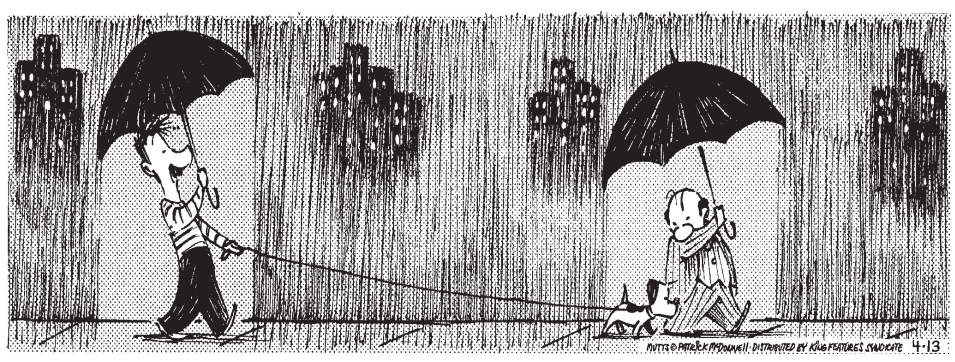
ROSE IS ROSE



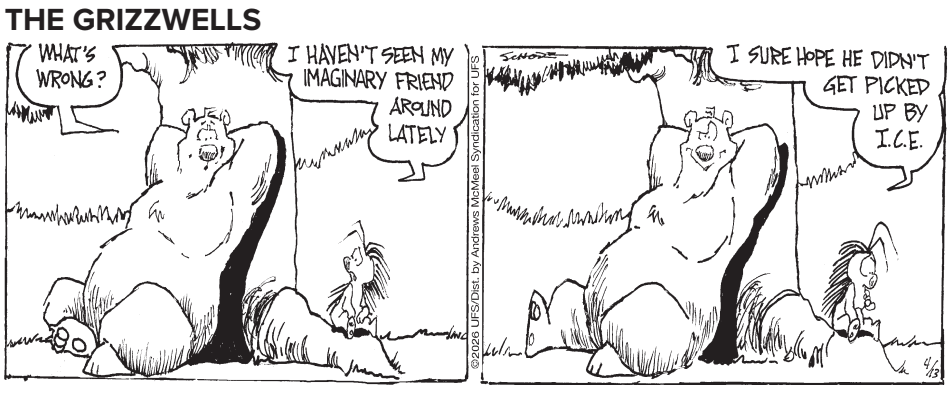
FRANK & ERNEST



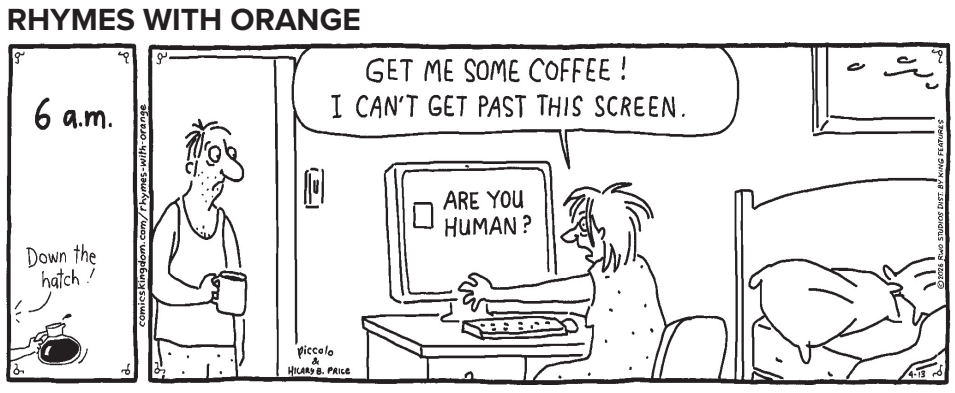
MUTTS



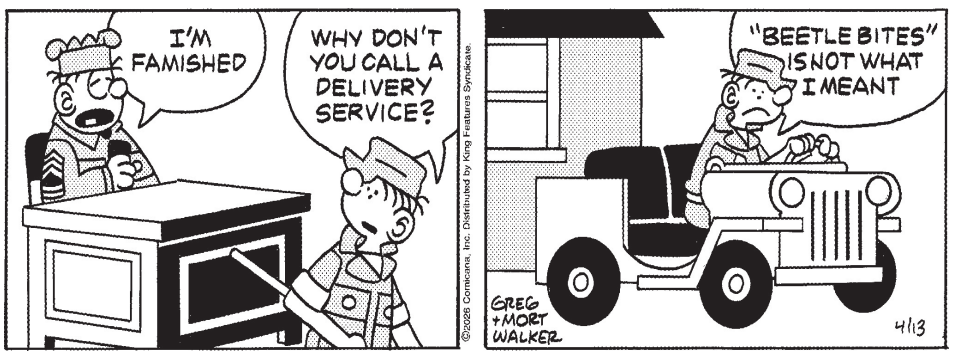
THE GRIZZWELLS



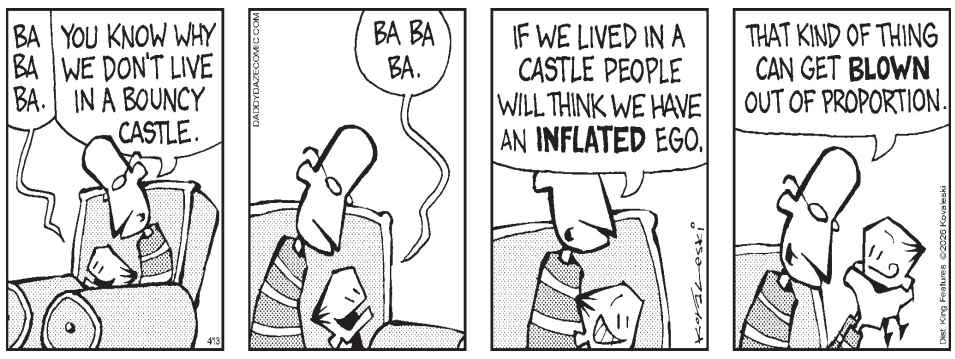
RHYMES WITH ORANGE



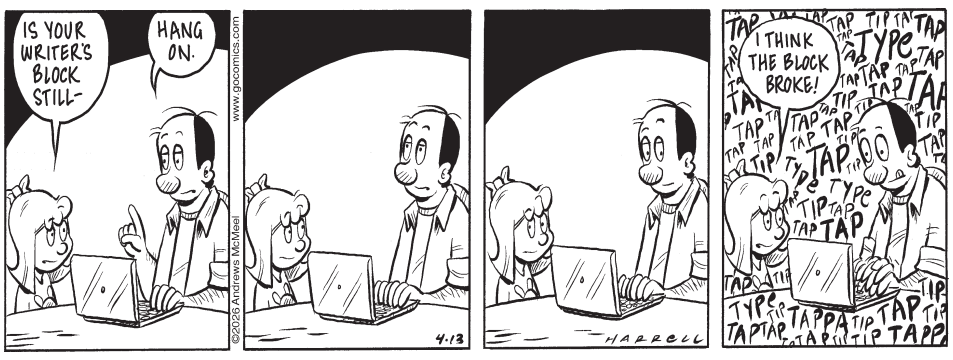
BEETLE BAILEY



DADDY DAZE

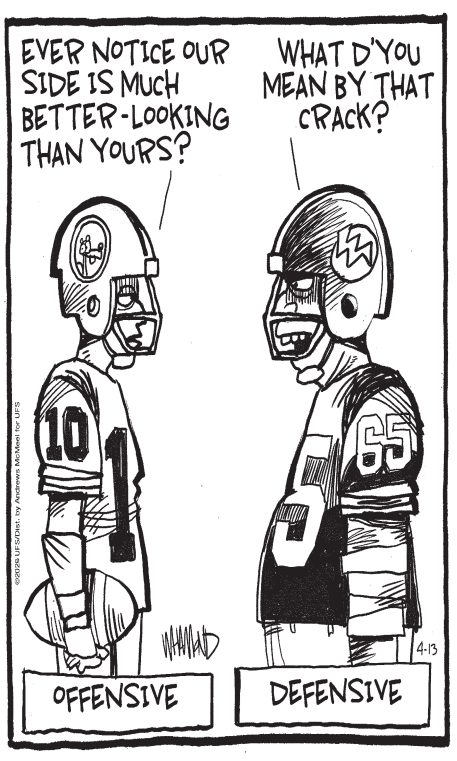


ADAM DAILIES

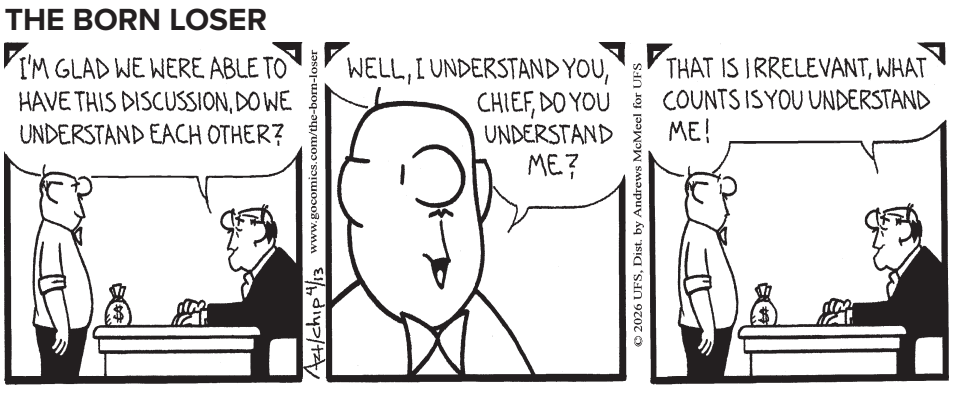


MODERATELY CONFUSED

REALITY CHECK



THE BORN LOSER



Shortcuts® by jeff harris

SOME LIGHT READING ABOUT LEAD

This cartoon weighs heavy on my mind.

Lead was one of the first metals used by ancient humans. They found it useful because lead is soft enough to shape by hand and is waterproof. Today, lead continues to be a beneficial material and is used for a variety of purposes in our modern world.

GET THE LEAD OUT

Lead is often used in bullets. In high-caliber weapons, the lead must be wrapped in stronger metals because pure lead would not hold its shape at high speed.

During the Middle Ages, white facial makeup, made using lead, was very popular. People continued to use the makeup even after it was discovered that it made them ill.

HEAVY HITTERS

Lead melts at 327.5 °C (621.5° F). This is a much lower temperature than most other metals.

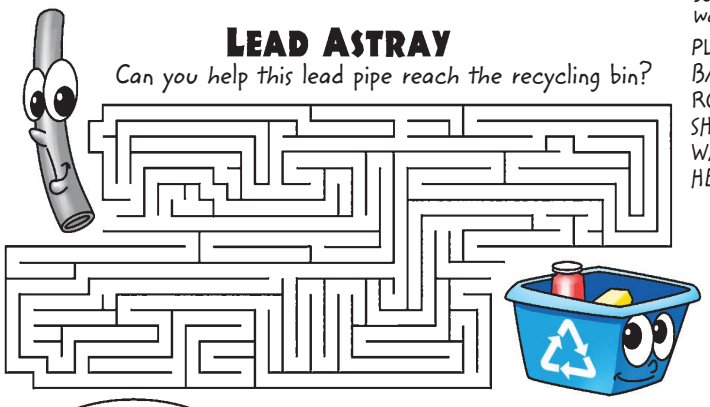
Pure lead is too soft for most commercial uses. Because of this, lead is often mixed with other elements to create stronger substances called "alloys."

Lead is 11 times heavier than an equal volume of water.

Lead is one of the heaviest metals.

LEAD ASTRAY

Can you help this lead pipe reach the recycling bin?



This edition of Shortcuts is sponsored by Lead Zeppelin.

What is lead's favorite sport? Softball.

We're actually a soft metal band.

Lead was used as a coating for roofs in many parts of the world.

WORD SEARCH

Can you find the hidden words? Search carefully because some words are backward or diagonal.

PLUMBING	ALLOY	LEAD	M P T T N S S A T O I W A
BATTERY	METAL	MELT	T E C A T A H D E B A C K
ROMANS	GLASS	ACID	M O M B L L I E M O O N A
SHIELD	LATIN	PIPE	P O L E E G E U A N E B B
WATER	LEAD	BOB	R O L L M I L A P V E N T
HEAVY	SOFT	MIX	D E A L E P D A D D Y E P

V E R Y C H E R S O F T N
T O R R O A D E E P E A R
N P X E E L O L L T A N G

Beginning in the 1600s, glassmakers refined the process of adding lead to glass. This made the glass more reflective and allowed the glass to be formed into more intricate patterns.

The Romans were the first to use lead for water pipes. The Romans preferred lead for pipes because it is waterproof and easy to shape. The word "plumbing" comes from the Latin word for lead.

Lead poisoning is an illness caused by having too much lead in your body. Lead is particularly harmful to children because even small amounts absorbed over time can cause brain damage and learning difficulties.

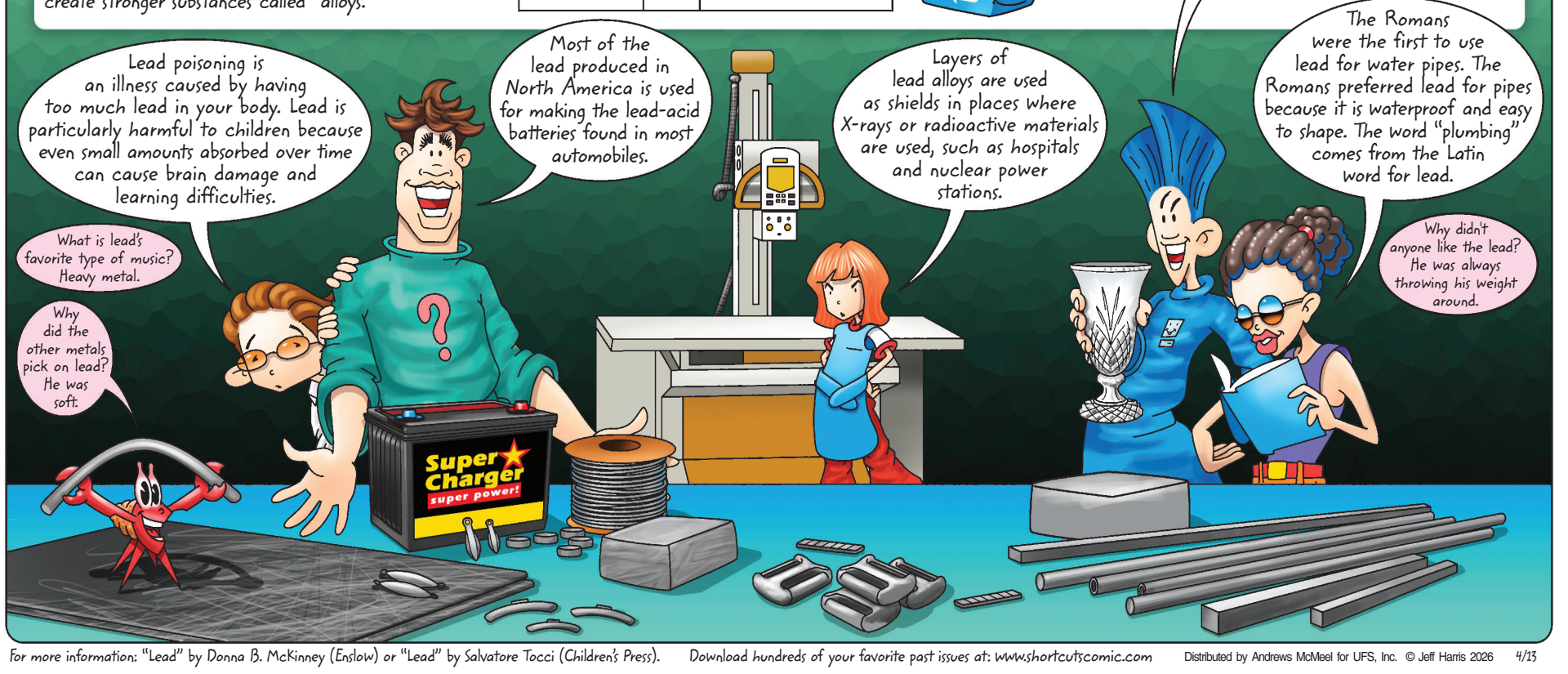
Most of the lead produced in North America is used for making the lead-acid batteries found in most automobiles.

Layers of lead alloys are used as shields in places where X-rays or radioactive materials are used, such as hospitals and nuclear power stations.

What is lead's favorite type of music? Heavy metal.

Why did the other metals pick on lead? He was soft.

Why didn't anyone like the lead? He was always throwing his weight around.



For more information: "Lead" by Donna B. McKinney (Enslow) or "Lead" by Salvatore Tocci (Children's Press).

Download hundreds of your favorite past issues at: www.shortcutscomic.com

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