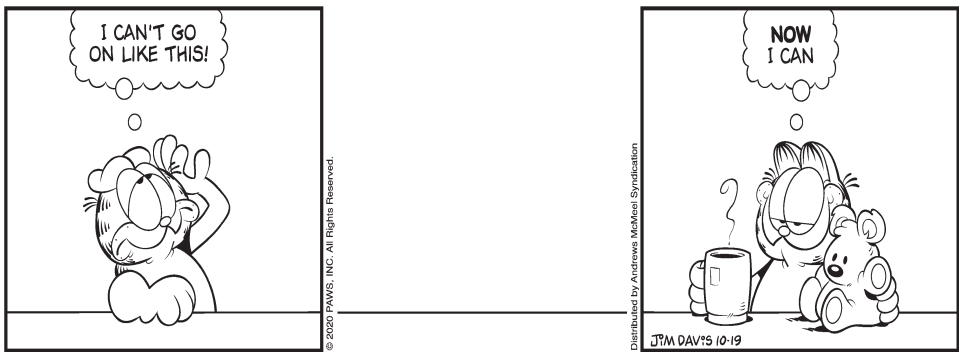
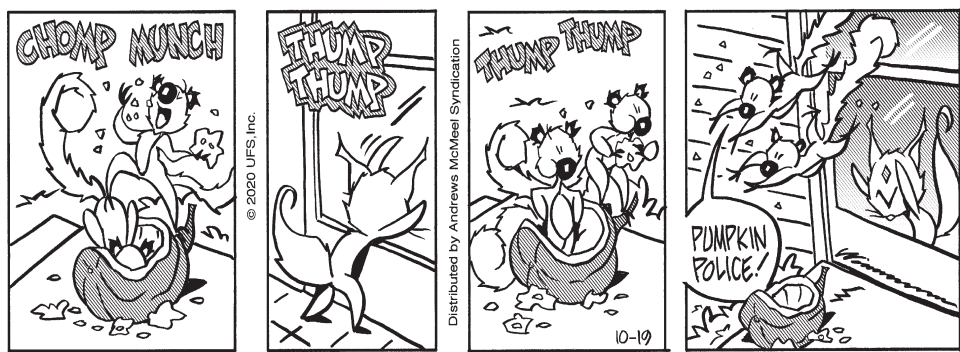


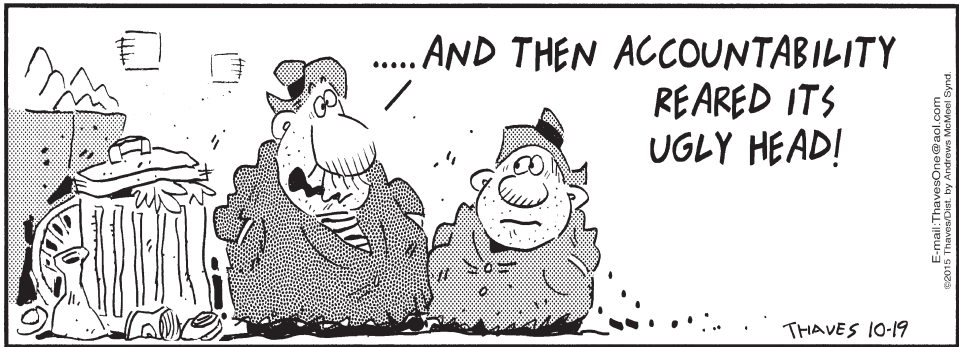
GARFIELD



ROSE IS ROSE



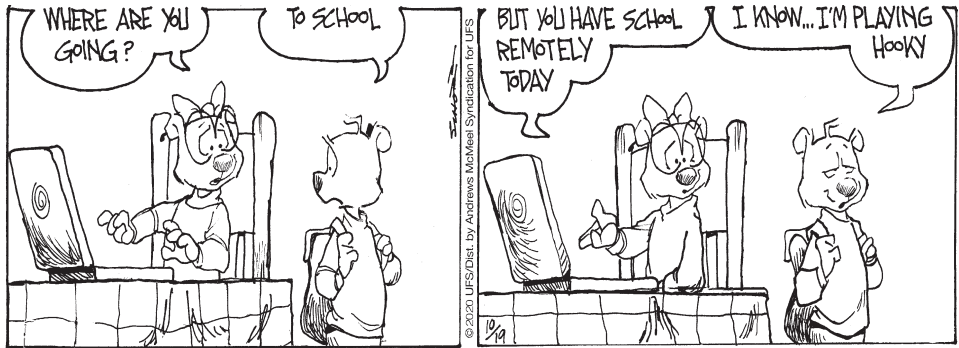
FRANK & ERNEST



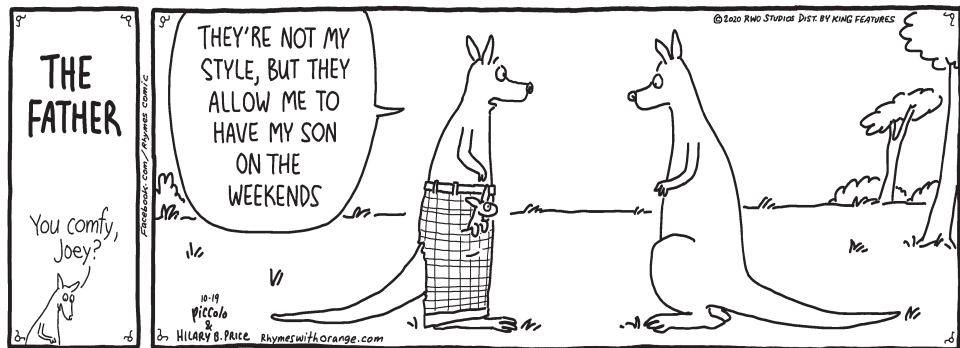
MUTTS



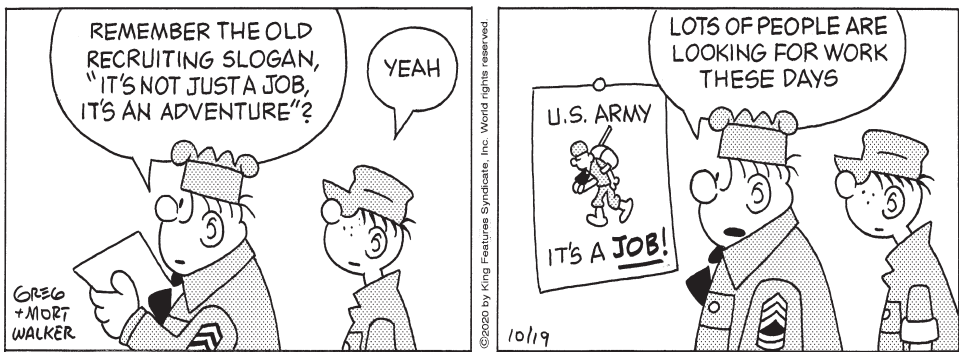
THE GRIZZWELLS



RHYMES WITH ORANGE



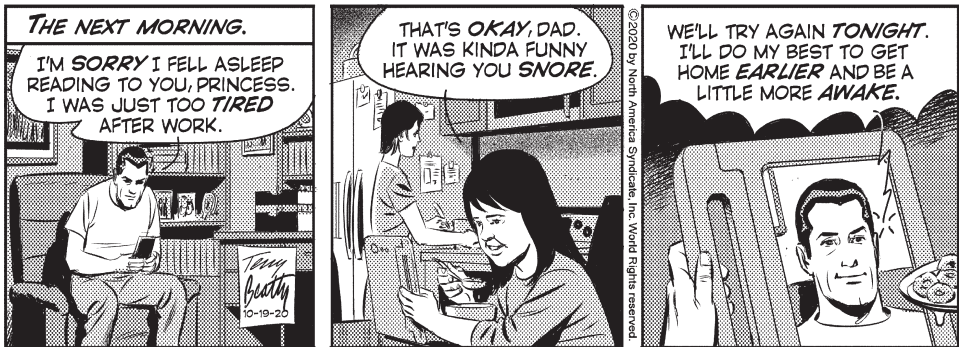
BEETLE BAILEY



HAGAR THE HORRIBLE



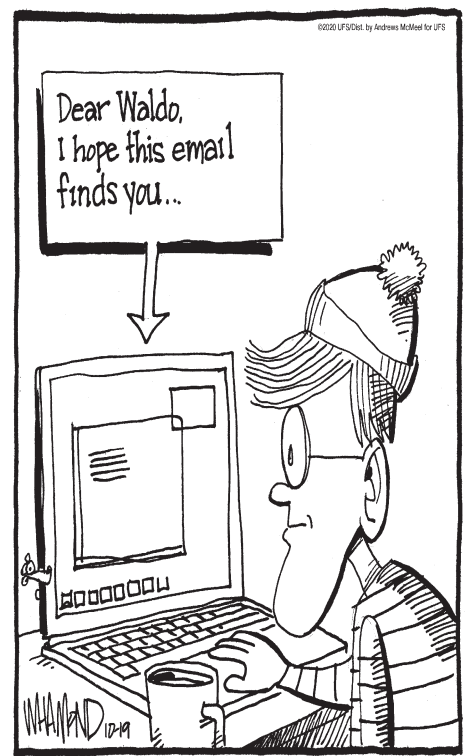
REX MORGAN



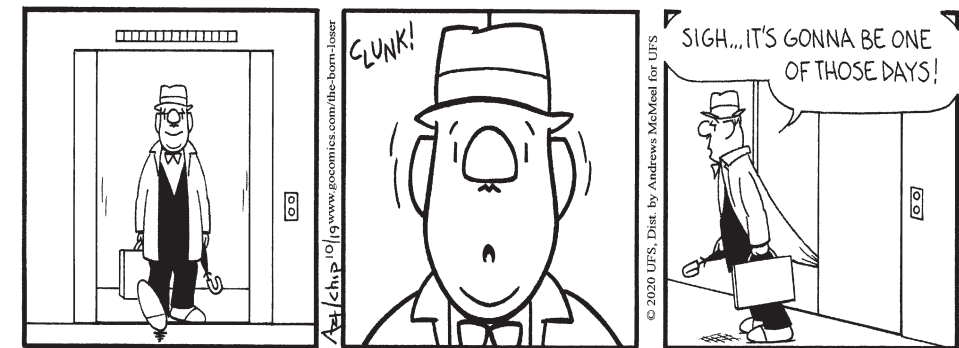
MODERATELY CONFUSED



REALITY CHECK



THE BORN LOSER



This edition of Shortcuts is sponsored by Winona Spider.

Shortcuts
by jeff harris

The Spin On Spider Webs

Spiders have been creating webs for more than 100 million years. While most of the more than 45,000 different species of spiders do not create webs, the ones that do have developed an astonishing number of ways to construct and use these effective and deadly traps for catching prey.

Spin Doctors

To create an orb web, a spider first casts a single thread that is carried by the wind. When the thread becomes attached to an object, like a twig or leaf, the spider reinforces it with more fibers. It then connects this thread with more threads, like the spokes of a wheel. The spider then lays a spiral of sticky silk across the spokes, starting from the outside and working its way in.

Net Gains

The triangle spider purposely collapses its web around its prey by releasing one of the main supports.

Spiders often eat their old webs to recycle the protein needed to create a new web.

Some spiders throw a small web over passing prey like a fisherman casting a net.

Web Designer

Can you help this artist get to her computer?

Where would you learn about a spider?
On his website.

Scientists are interested in spider silk because it is both strong and stretchy, making it a great model for artificial tendons, skin grafts, bandages, textiles and body armor.

Spiderwebs have been used as nets by Polynesian fishermen, and by ancient Greek and Roman soldiers to treat wounds.

Most orb webs are rebuilt every day.

Word Search

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

WHEEL VAMPIRE MYTHS
SHEET OAKEEPOWSCHET
FIBER STEEL SCUBAWRATALKR
SPIDER CAST WHILEECEEBOOO
STRETCH PREY HFOESBROYOUN
STRONG BOB ELGNATREEBUSG
TANGLE ORB EVENSEENDUSUN
FUNNEL WEB LTRUEEVENICER
SPOKES SILK BUFFIHALLLPOW
BUILD NET BANANSOKIDOSE

Most orb webs are rebuilt every day.

Most spiders build their webs at night.

Why was the spider dizzy?
She was spinning a web.

What do you get when you cross a spider's home with an ear of corn?
A cobweb.

What are spiderwebs good for?
Spiders.

Spiders construct several different types of webs: "orb" webs look like bicycle wheels, "sheet" webs look like little hammocks, "tangle" webs look like a tangled mess, and "funnel" webs are shaped like a funnel.

The average orb web takes about a half-hour to build.

This cartoon is a sticky situation.

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