

INTRODUCTION TO HORSE PUZZLES

by Deb Bennett, Ph.D.

I confess it right here: I'm a crossword puzzle addict. Pretty grumpy is how I feel if my daily newspaper doesn't arrive, complete with a fresh 15 X 15 block every day. Sudoku has passed me by; the Word Search doesn't thrill me; the Brain Teaser is there too, but I ignore it. The crossword's the thing.

The crossword puzzle format is very flexible, allowing of considerable variation. One need only state the rules. I'm not a good enough crossword puzzlemaker to create the kind of puzzle you see in the daily paper -- these puzzles carry as one rule that the grid must be symmetrical. In other words, the black squares in the grid must be mirror images, left to right and top to bottom.

Much simpler to make are crosswords of irregular pattern. This is the type that I see in British newspapers, though there the grid is presented as just inter-crossing words, without the empty squares being black. With or without black squares, this kind of puzzle is a kind of hybrid between an Acrostic and a formal crossword.

The other thing about irregular crosswords is that they are much more amenable to being packed with "theme" words. Naturally, every puzzle presented here has some kind of "horsey" theme, and there are not less than a dozen "theme" answers in each puzzle. And I've pulled no punches as to difficulty: to solve these puzzles, you really will need to know something about horses. At the same time, however, I follow New York Times Puzzlemaster Will Short's preferences for clues: they are perfectly straightforward -- no intentionally tricky stuff, no excessive obscurity. I give you the "freebie" when, as occasionally happens, a string of letters comes out to make no sense at all.

My intention is to revise this document periodically in order to increase the number of puzzles included. Initially there are four: Bare Bones, Flex Your Muscles, A Breed Apart, and Show Your Colors.

Anyone who wishes is welcome to make use of these puzzles as learning aids in an equine education program. The puzzles are copyright to me, but I hereby explicitly give permission for them to be used for any classroom or educational purpose, including Pony Club, Old Persons Riding Club, 4H, FFA, agricultural college, or riding club. It is explicitly forbidden to publish these puzzles, to make electronic copies, or to make more than 50 copies on paper at one time.

Puzzles are presented first, with the filled-in answers in the same order at the back of the document.

I hope you enjoy playing with these. --

Dr. Deb Bennett, Ph.D.

From the Equine Studies Institute offices

Livingston, California USA

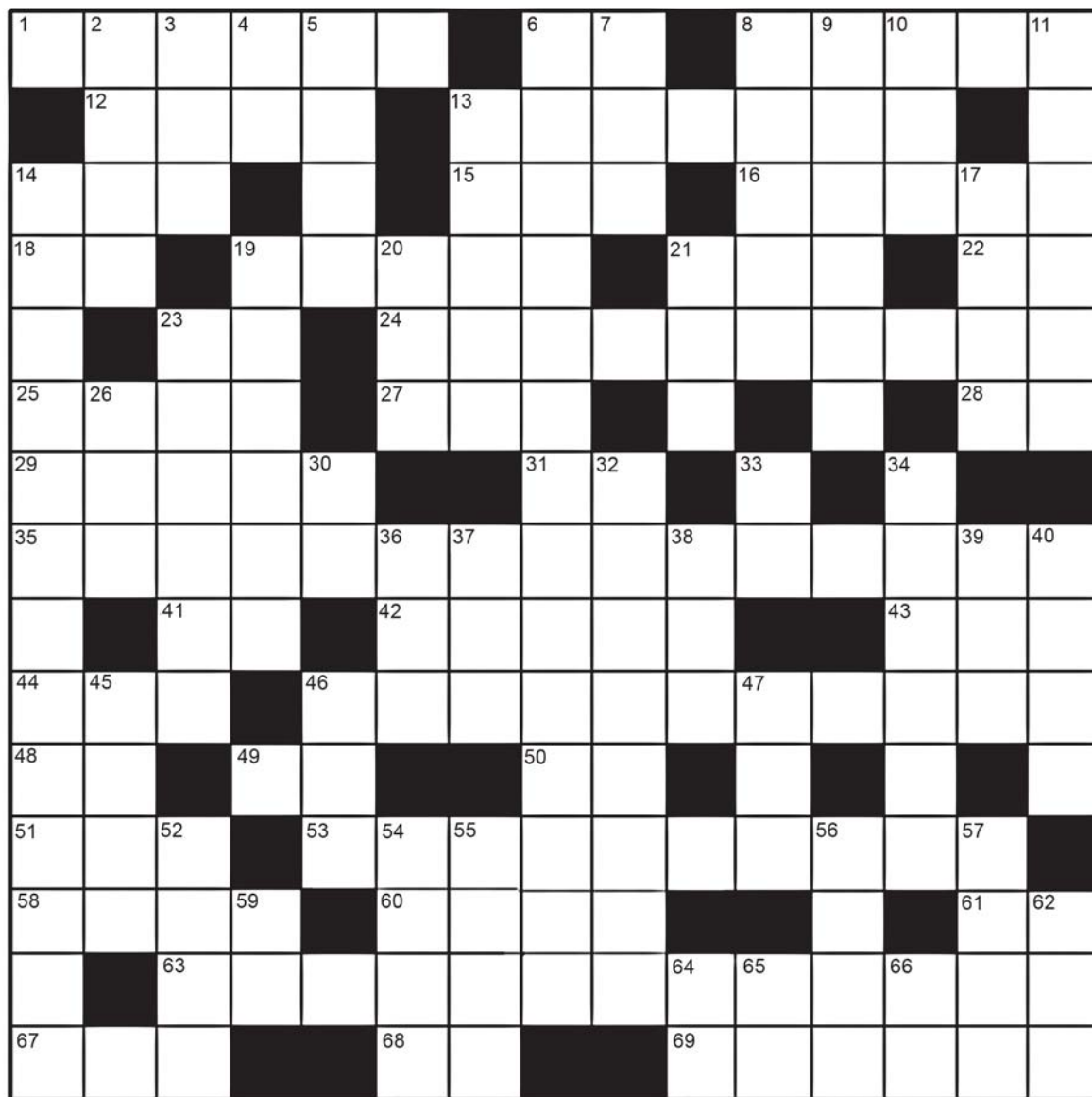
November, 2008

No. 1

BARE BONES

By Deb Bennett, Ph.D.

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BARE BONES

ACROSS

1. Small bone below the knee joint.
6. Office for hiring, complaints, and documents in many businesses.
8. Tiny projections from tooth enamel that help to anchor the enamel to dentine
12. Nickname for someone named "Guadalupe"
13. Dense, smooth cartilage type commonly found coating the ends of long bones
14. Goal
15. Not even
16. French washing-toilet
17. Pilot of a UFO
18. English goodbye
19. Long bone of the hind limb
21. _____ de Janeiro
22. Half a ballet costume?
23. "And _____ it goes"
24. A flangelike or knoblike projection from the shaft of a bone
25. Turkish provincial capital and famous archaeological site dating back 3,000 years
27. Number of lumbar vertebrae in a normal horse
28. Compass direction
29. The most important joint in the horse's body for collection is the _____-lumbar joint
31. Famous American football quarterback, ____ _____ Tittle
35. Major axial-body structure
41. Grunting syllable
42. Part of a flower
43. Bovine comment
44. Ewe's mate
46. A bursa-like structure of the distal limb is the inter-_____ ligament
48. ____ amo, Latin or Spanish "I love you"
49. Alternative to DC
50. "_____ be, or not...." (Shakespeare)
51. "I was able _____ I saw Elba"
53. Small bones in the horse's throat, important in swallowing
58. Type of pear
60. Comedian Johnson
61. Cry of distress
62. Short, extremely strong collagen filaments that join periosteum to bone
67. Chopping tool
68. Famous author _____ Lawrence
69. Bone of the hock (true ankle joint)

BARE BONES

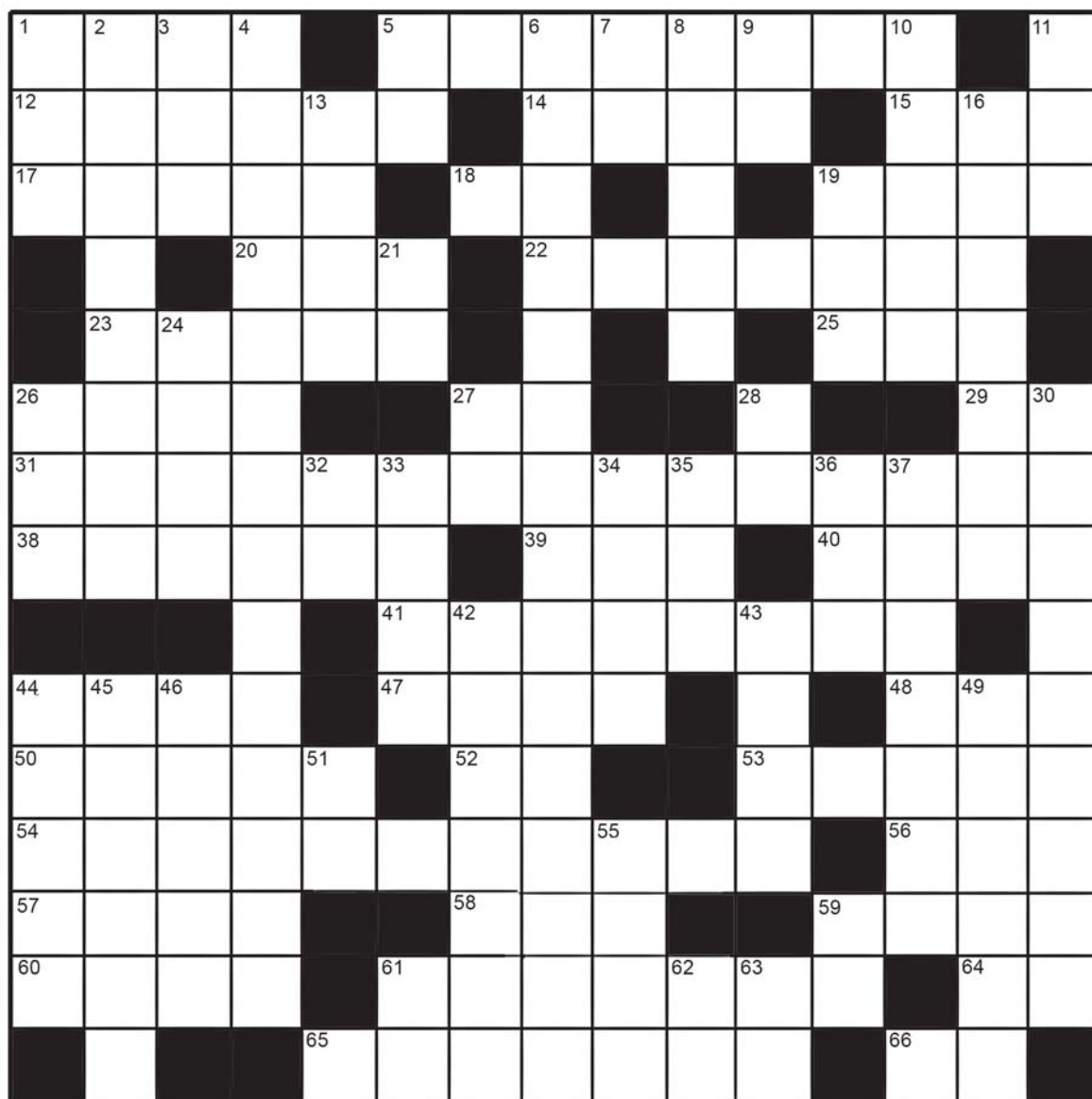
DOWN

2. Pelvic bones
3. Street person
4. Not down
5. _____ majesty
6. Biologically excreted mineral that makes bones hard
7. Far out
8. Large bone below the knee joint
9. Bulbs for stews and omelettes
10. Smaller than L, bigger than S
11. Line of juncture between two skull bones
13. Heavenly beings of Islamic tradition
14. Most anterior bone of the neck
17. French seasons
19. "Born on the _____ of July"
20. High places (abbr).
21. Greek letter
23. Bone consisting of five or six fused vertebrae, attached to the ilia
26. Scottish denial
30. Old English (or for Tolkien fans, 'Old Entish') (abbr.)
32. Cool way to eat apple pie
33. "_____ you hear what I hear"
34. Several upper arm bones
36. Medical acronym for "mad cow" disease
37. A legal thing
38. Famous California cow, spokesbovine for Clover Dairies
39. Large flightless bird from New Zealand, now extinct
40. Roman goddess of pregnancy, whose name means "ninth"
45. Airy prefix
47. "_____ bin ein Berliner" (J.F. Kennedy)
52. Latin being
54. Back of the stable (in Britain), or back of the house (America)
55. Movie theater (abbr).
56. Short form
57. Actress Zehetner
59. TV or radio sta.
62. Dot on a map (abbr).
64. Shorter than a yd.
65. Neighbor of NB
66. "Que ____ esto?"

Flex Your Muscles

by Deb Bennett, Ph.D.

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FLEX YOUR MUSCLES

ACROSS

1. Farm measure
5. A muscle primarily responsible for attaching the scapula to the ribcage
12. A muscle that acts to close (fold) a joint
14. Latin prefix meaning “inside”, as in _____thelium
15. Top gun
17. Receptors for this are upon the tongue
18. A dosage might be measured in this
19. Religious statue
20. Terminus
22. Muscles that pull on fascia, or upon a joint capsule
23. Playground rejoinder to “is too”
25. Negative
26. Play divisions
27. “_____ you _____ or _____ you ain’t my honey?”
29. Acronym for “anteroposterior”
31. Contractile complex in the sublumbar region, primarily responsible for loin coiling
38. “_____ Olde England”
39. Feather scarf
40. Sheetlike connective tissue found under the skin and wrapping muscles and organs (abbr).
41. A muscle that moves a limb away from the body axis
44. Polynesian staple tuber
47. Bleak “Hound of the Baskervilles” habitat
48. Latin prefix meaning “arm”, as in the _____hyoideus muscle
50. A horse’s incisor teeth may be used for this
52. Bill’s abbreviation
53. Type of nerve whose target organ is a muscle
54. The largest muscle in the horse’s body is the _____ dorsi
56. Retirement acct.
57. Indian language
58. Business letter abbr.
59. Worshipped one
60. Rude word
61. Largest muscle intrinsic to the horse’s forelimb
64. Himmler’s command primarily responsible for crimes against humanity during WWII
65. Muscles, which can contract, are active structures; ligaments and tendons cannot contract and are thus _____ structures
66. “_____ Olde Tea Shoppe”

FLEX YOUR MUSCLES

DOWN

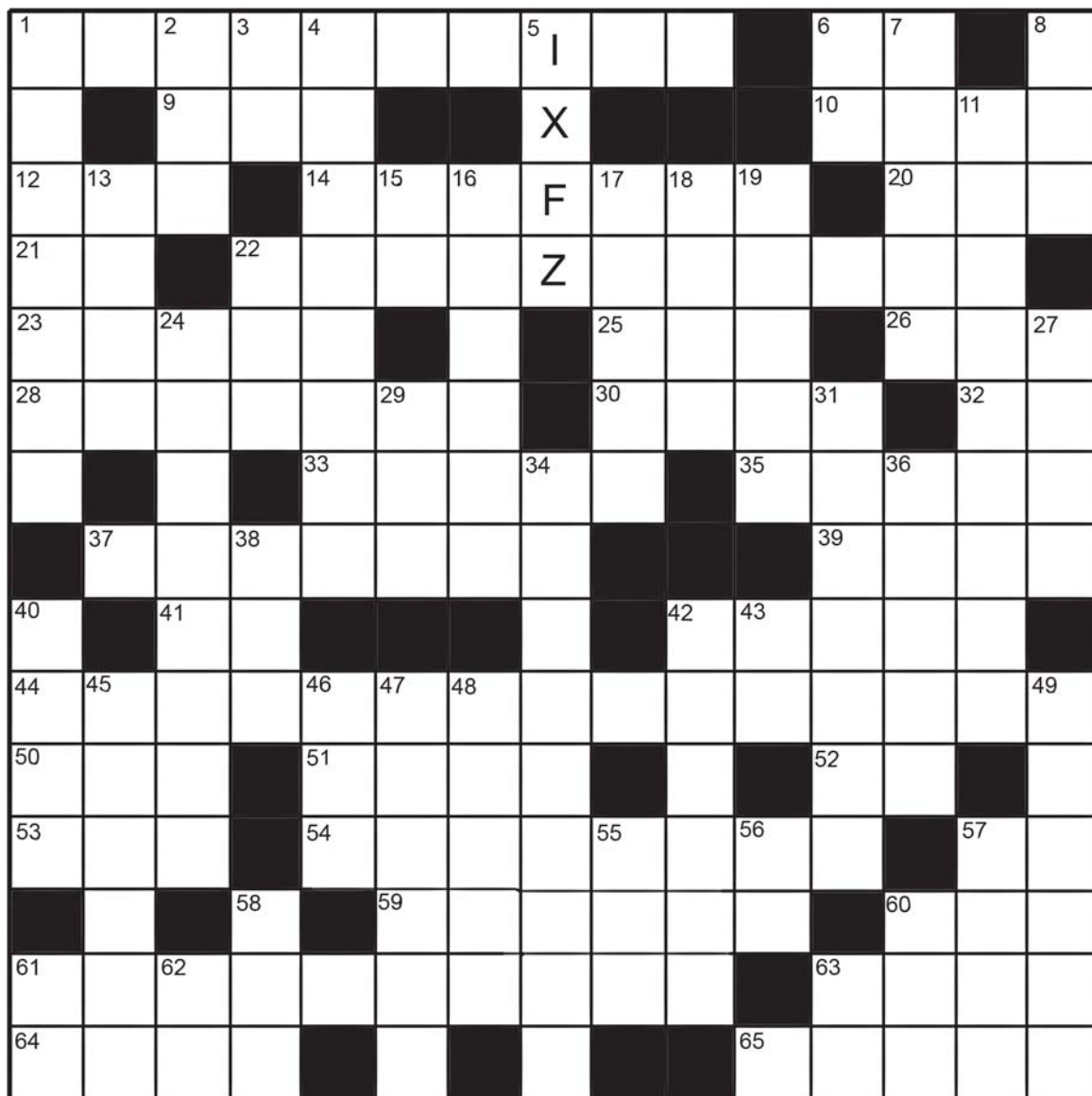
1. Posterior, in a ship
2. One bone that a horse does not possess
3. Legal thing
4. Muscle with a long tendon in the horse's forelimb
5. Older than jr.
6. Major muscle of the horse's underline, it works to raise the freespan of the horse's back
7. ER worker
8. Latin prefix meaning "gland"
9. "_____be, or not _____ be" (Shakespeare)
10. The _____-iliac joint links the horse's vertebral column with its hindlimb
11. Japanese Buddhist sect
13. Latin prefix meaning "wine"
16. Muscles between the ribs are the inter_____
19. Charged particle
21. Alcohol withdrawal symptom (acronym)
24. Penitentiary slang
26. Point at the target
27. Moon of Jupiter
28. Greek letter
30. Complex of substantial muscles that support the horse's thorax and adduct the forelimbs
32. Irrational number used to calculate the area or circumference of a circle
33. Line of stitching
34. Like a lemon
35. PC rival
36. South San Francisco's big airport
37. Major artery of the horse's neck, located deep to the jugular vein
42. Friends of Fido
43. Scottish hats
44. Synonym for the tibial tarsal bone or astragalus
45. Greek marketplaces
46. Peels
49. Sad and depressed
51. Veteran
53. Advanced degree
55. Early medieval date
59. Old Testament bk.
61. British "see ya later"
62. Electrovolt (abbr).
63. H.S. gym.

No. 3

A BREED APART

by Deb Bennett, Ph.D.

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A BREED APART

ACROSS

1. Iberian breed for parade and bullfight
6. Meditation syllable
9. Sun Devil school
10. Faith and Charity partner
12. Sixpack muscles
14. Old, and now rare, English draft breed
20. Unite
21. Undergraduate degree
22. High School breed that takes its name from a town in Slovenia, near the Italian border
23. "I'm _____ water with the boss" (2 wds.)
25. Formerly
26. Major maker of TV's
28. Ancient pueblo builders from the Four Corners region of the U.S.
30. Location halfway up in the stadium
32. 50th U.S. State (abbr.)
33. Inner suburb of New York City
35. Supernatural power
37. Argentinian breed rescued from extinction by the Solanet brothers
39. Maj. blood vessel
41. French article
42. Mexican name for an equine of the Southwestern deserts
44. The Bureau of Land Management oversees more than eight different populations of this breed
50. Manuel's two
51. The Kentucky Derby is one
52. ____ White, author of "Charlotte's Web"
53. Sounds of uncertainty
54. Disney or Pixar employee
57. "To _____, or not to _____": Shakespeare
59. Fate that befell many a football player
60. Ovine comment
61. American breed with high-stepping, elastic way of going
63. Dirty dogs
64. Business letter abbreviation
65. By far, the world's most influential horse breed; originating in Ireland

A BREED APART

DOWN

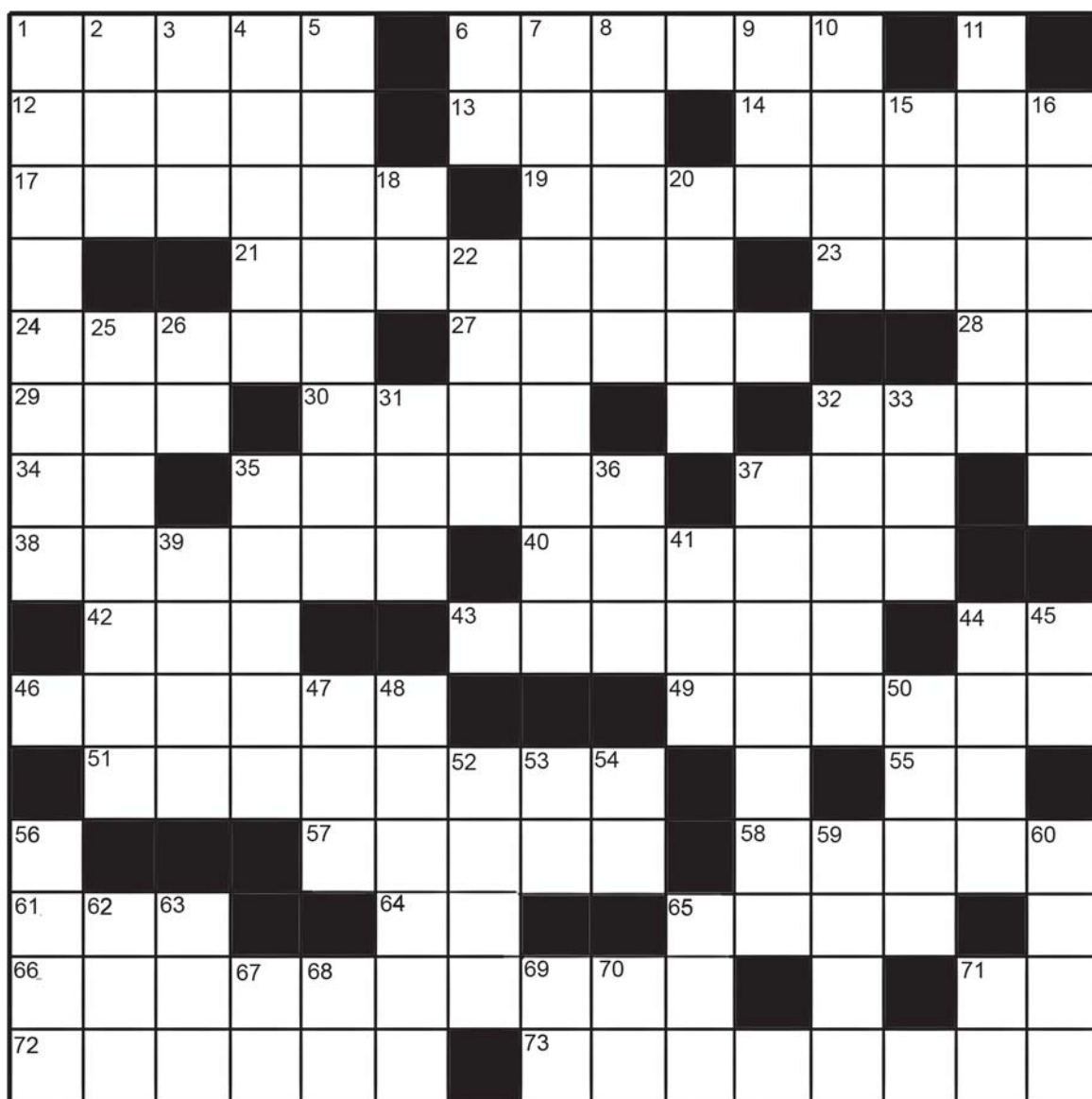
1. Very popular breed originating in Syria and southern Turkey
2. German article
3. “_____ the Wrench Turns”: new Magliozzi Brothers comedy film
4. Portuguese breed for High School and bullfighting
5. Freebie
6. Sound of surprise
7. You can get one to push or ride
8. Primary color
11. French draft breed that contains some Arabian
13. Old-time notice of engagement
15. Not down
16. A daughter’s devotion is always this
17. Mountainous plateau of Arkansas and Missouri
18. Maria’s lake
19. Understood
22. _____ Angeles, California
24. Like the top of a bald man’s head
27. Ungrammatical denial
29. Part of a wd.
31. There are more registered American _____ Horses than any other breed in the world.
34. Compact, elastic-moving small horse or pony breed originating in Ireland
36. Cross between Morgan and Arabian
38. Comparative ending
40. The kind of horse everyone wants to end up with
42. Kind of square end-joint
43. We here
45. Breed originating in New England at about the time of the American Revolution
46. Personal savings plan
47. Easy gait
48. Old-time “bitter” (alt. Spelling)
49. Slippery
55. Summertime quencher
56. Overdose (abbr.)
57. North African breed that contributed to the ancestry of the American Mustang
58. Caesar’s midmonth bane
60. Fella
61. Antonio’s yes
62. Medical title
63. Common business abbreviation

No. 4

SHOW YOUR COLORS

by Deb Bennett, Ph.D.

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SHOW YOUR COLORS

ACROSS

1. Famous taxidermist, or a fat fish
6. Coat pattern consisting of irregular white patches, often with jagged edges; lightning marks on legs; and spots on the belly
12. Large star in the constellation Aries
13. Office of Public Works (abbr).
14. Plugs of tobacco
17. Inventor of the lightbulb
19. Color defined as “within three shades of a newly minted U.S. gold coin”, with white mane and tail
21. Coat pattern consisting of irregular white patches, usually with smooth edges; often with blaze face and stockings on legs; characteristically with “target” pattern in rear view
23. Begin to move
24. Recorded
27. Color with variations including raven, midnight, and coal
28. Common British address abbreviation, meaning “close to”
29. It may have threads
30. Pedro’s brilliance
32. Measuring device
34. Not down
35. Forgive
37. The “_____ Wizard Tournament” in *Harry Potter and the Goblet of Fire*
38. Cats often sport these coat patterns, but not horses
40. A black-skinned grey with no markings, as the Lone Ranger’s horse
42. Pierre’s island
43. Coat pattern consisting of ringlike markings, which may be more or less distinct, and which may vary with the season and the horse’s age and condition
44. Meditation syllable
46. Blueish-black dun, often with visible stripes upon the legs, a dorsal stripe, and black mane and tail
49. Piece of chamber music featuring a solo instrument and piano
51. Essential trace mineral that can be toxic if eaten in quantity
55. Common business name abbr.
57. Make void, as a marriage
58. Thin air, or an organic compound
61. Popular ISP
64. Hawkeye school
65. Horses with this gene complex are born dark but gradually turn lighter with age
66. Pattern of small “flecks” or groups of dark hair evenly scattered through the coat of a grey horse
71. Laughter syllable
72. Renter
73. A dilution gene acting upon bay coloration will produce a coat of this color

DOWN

1. Reddish-brown coat color
2. Possessed
3. World's largest microfilm storehouse and dissertation publisher
4. Brush butter on the roast turkey
5. Color with rich mahogany-red body coat and black "points"
6. "And _____ it goes"
7. Horses with this type of spotting pattern may be snowflake, spotted-blanket, or white blanket
8. African term of respect
9. An Army sergeant may be this
10. Measures of electrical impedence
11. Shade
15. River island
16. Pale reddish color with lighter, often cream-colored, mane and tail
18. Note well (Lat. Abbr.)
20. When you have the key, it will open
22. Reference abbr., "to be found in the same place"
25. Nannies
26. JFK's boat
31. Rock Island and Santa Fe
32. "Color" of an untrained or inexperienced horse
33. Breathable stuff
35. Students' favorite restaurant in Ann Arbor, it's a short form of "Pretzel Bell"
36. Puppies often do this, and some ponies learn to do it too
37. Couch potato
39. Shade of roan
41. Music format before CDs
44. Plains tribe
45. Teachers' degree
47. Meadow, poetically
48. "_____ coeptis", one of the two Latin mottoes that appear on the Great Seal of the United States
50. Full of pains
52. First letter in a monogram (abbr.)
53. Utes' university
54. Small metric quantity
56. Simple watercraft
59. "_____ of the d'Ubervilles" by Thomas Hardy
60. Horses of this color are born with individual white hairs sprinkled all over the body, but they do not grow much lighter with age
62. Bullfight cheer
63. Familiarly, to Bruce's friends
65. Major health-food and vitamin manufacturer (abbr.)
67. Popular 12-step program
68. Letters on a railroad car
69. Lung disease
70. Modern alliance of European countries
71. 50th American state

SOLUTIONS

No. 1

BARE BONES

By Deb Bennett, Ph.D.

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1	F	2	I	3	B	4	U	5	L	A		6	H	7	R		8	T	9	O	10	M	E	11	S
		12	L	U	P	E				13	H	Y	A	L	I	N	E								U
14	A	I	M		S					15	O	D	D			16	B	I	D		17	E	T		
18	T	A		19	F	E	20	M	U	R			21	R	I	O					22	T	U		
	L		23	S	O			24	T	R	O	C	H	A	N	T	E	R							
25	A	26	N	A	U			27	S	I	X		O			S				28	S	E			
29	S	A	C	R	30	O					31	Y	32	A		33	D		34	H					
35	V	E	R	T	E		36	B	37	R	A	L	38	C	O	L		39	M		40	N			
	E		41	U	H		42	S	E	P	A	L						43	M	O	O				
44	R	45	A	M		46	S	E	S	A	M	O	47	I	D	E	A	N							
48	T	E		49	A	C					50	T	O			C		R							A
51	E	R	52	E		53	H	54	Y	55	O	I	D	C	H	56	A	I	57	N					
58	B	O	S	59	C			60	A	R	T	E				B			61	O	62	I			
	R		63	S	H	A	R	P	E	S			64	F	65	I	B	66	E	R	S				
67	A	X	E					68	D	H					69	T	A	R	S	A	L				

No. 2

FLEX YOUR MUSCLES

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A	C	R	E		S	E	R	R	A	T	U	S		Z
F	L	E	X	O	R		E	N	D	O		A	C	E
T	A	S	T	E		C	C		E		I	C	O	N
	V		E	N	D		T	E	N	S	O	R	S	
	I	S	N	O	T		U		O		N	O	T	
A	C	T	S			I	S			M			A	P
I	L	I	O	P	S	O	A	S	M	U	S	C	L	E
M	E	R	R	I	E		B	O	A		F	A	S	C
			L		A	B	D	U	C	T	O	R		T
T	A	R	O		M	O	O	R				O	M	O
A	G	I	N	G		W	M			M	O	T	O	R
L	O	N	G	I	S	S	I	M	U	S		I	R	A
U	R	D	U			E	N	D			I	D	O	L
S	A	S	S		T	R	I	C	E	P	S		S	S
	S			P	A	S	S	I	V	E		Y	E	

No. 3

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