

Eric Baker Estill County Extension Agent for Agriculture & Natural Resources

According to University of Kentucky Extension ruminant veterinarian Michelle Arnold, "neonatal" calf diarrhea is defined as scours vaccines are formulated to while cow-calf pairs remain when it occurs within the be given to pregnant cows on the old pasture. Additioning of the calf's intestine and being formed. cause diarrhea. The decrease compared to healthy calves. and/or quality of colostrum, in the gut. difficulty calving, poor sanitation, cold, wet weather and calves receive adequate co-

risk of disease. colostrum can technically er risk for subsequent dis-A good scours vaccine be absorbed up to 24 hours ease, especially calf scours. program in the cow herd is of age, the amount absorbed Trauma associated with a an important first step. Ro- after 12 hours of life is con- difficult birth severely im-

tavirus, coronavirus, bacteria siderably diminished. (K99 E. coli; Clostridium that cause diarrhea. Scours tate cows onto clean pastures

A first or primary dose if the first thing a calf ingests in absorption of essential followed by a booster dose is manure from the calving nutrients from milk leads is required the first year you area. to weight loss and dehydra- use a scours vaccine. After tion. If the disease level is that, just one annual revac- provide adequate energy and Preventing calf scours in- nancy, followed by Guardian Additionally, calves need admune system of a newborn is given late in gestation. If birth. Weak calves cannot least 2 quarts during the first calf. Excellent cow nutrition the cow herd has not been produce sufficient body heat during and after gestation, vaccinated and calf scours and may be slow to stand an easy calving process, and develop, there are oral vac- and nurse. Remember up to contact the Estill County Coenvironmental management cines available to give to 880 percent of fetal growth factors all contribute to a newborn calves, prior to occurs in the last 50 days of successful start. On the flip nursing, which can provide gestation and cows should side, an inadequate quantity some immediate protection calve at a body condition

Make sure newborn 6). overcrowding in calving ar- lostrum within the first six a difficult birth have a greateas all contribute to a higher hours after birth. Although

perfringens Type C, Salmo- colostrum from the mother, trum. It is important to pronella spp.) and the parasite it is essential to prevent the vide these calves with colos-Cryptosporidia are the most environmental load of pathocommon causes of neonatal gens or "bugs" from overcalf diarrhea. Controlling whelming the calf's immune rotavirus, coronavirus and system. Generally, calf scour E. coli with vaccines can pathogens build up in the enhelp you significantly re- vironment as the calving seaduce or eliminate sickness son progresses. Calving in If this happens you need to and death losses due to calf the same area as older calves reduce newborns' exposure scours. Most beef cows progreatly increases the risk to duce adequate colostrum, the newborn calf, especially but sometimes they do not in wet or muddy conditions produce the correct antibod- as we often see in the spring ies to fight the specific bugs in Kentucky. If possible, ro-

The cows' diet should

Calves that experiencing

pacts the ability of that calf Once the calf has received to nurse and absorb colostrum quickly which usually means using an esophageal feeder rather than waiting for the calf to nurse on his own. Even with prevention, you can have a scours outbreak. to infectious agents, separate healthy pairs from sick calves immediately and make sure equipment, boots and hands are thoroughly cleaned after handling sick animals. You'll also need to move pregnant cows forward to a first three weeks of a calf's and heifers late in gestation, ally, keep the calving area clean pasture, maintain clean life. Bacteria, viruses and so they will make the correct as clean and dry as possible. pens and facilities, reduce parasites can attack the lin- antibodies as colostrum is Even the best calving man- stress on cows and calves agement will have no effect and assist with calving early as necessary, especially with heifers. Keep animals as clean and dry as possible and provide windbreaks in cold weather. You need to have a severe, calves often die, but cination is required. Product protein. Calves born to ener- good nutrition plan for cows even calves that survive will selection often depends on gy deficient cows will have and heifers and make sure perform poorly for the re- when you plan to work cat- reduced amounts of brown calves start nursing as soon mainder of their lives when tle; generally Scour Bos is fat, which supply energy for as possible after calving to administered earlier in preg- the calf to survive initially. get adequate colostrum (10 percent of the body weight volves goes beyond the im- and then ScourGuar, which equate protein for vigor after in the first 24 hours with at

> 6 hours). For more information, operative Extension Service at 606-723-4557 or your large animal veterinarian.

Educational programs of score of 5 (heifers at BCS the Cooperative Extension Service serve all people regardless of race, color, age, sex, religion, disability or national origin.



This is a simple substitution cipher in which each letter used stands for another. If you think that X equals O, it will equal O throughout the puzzle. Solution is accomplished by trial and error

Clue: V equals I

VG KZL YVSA HZUAEAII HAAG NZ

B OLUYQK OZQIA VU

TAUUIKESBUVB, VI NOBN B

TOVEEK GVEEK GVEEAN?

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CryptoQuote

AXYDLBAAXR is LONGFELLOW

One letter stands for another. In this sample, A is used for the three L's, **X** for the two O's, etc. Single letters. apostrophes, the length and formation of the words are all hints. Each week the code letters are different.

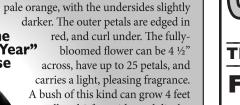
MQZV SZV JZ YRLJDQ, GQA

TZX VRYY BOZCRJ DWDQ

COZP JSZLD VSZ JGYM

IGAYT. - BYXJGONS

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across, have up to 25 petals, and carries a light, pleasing fragrance. A bush of this kind can grow 4 feet tall and 2 feet wide, and display many blooms at a time throughout a growing season. When set next to blue flowers such as delphinium it is especially striking. - Brenda Weaver Source: www.allaboutrosegardening.com

The inner petals of this Grandiflora rose are

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The

"New Year"

Thursday, January 14th @ 6:30pm

Farmers Market Seminar

The Estill County Extension Service will host a farmer's market seminar on Thursday, January 14th, 6:30 p.m., at the Extension office. Sharon Spencer of the Kentucky Department of Agriculture will be our speaker and discuss selling at farmers markets and ways to help the local market grow. To pre-register, please call

January 6, 2016

Puzzles4Kids

A	nswe	r
WAGERS SALMON SATURN SPACER SKATES	G L A S S	SWEAR MOANS TURNS CAPER STAKE
DIFFER STABLE SHEILA PLAYED PESTER DEGREE BAMBLE	F L P E B	FIRED BEAST HEALS DELAY STEER GREED BLAME

Letter Box

REAPS

SPARSE

Solution

Ι.									
	Ν	R	Е	Z	1	Τ	Р	0	Α
	Р	Α	Т	R	0	Z	Τ	Z	Е
	Z	0	Ι	Α	Р	Е	Z	R	Т
	Е	Р	Α	Т	Т	R	Z	Ν	0
	R	Т	0	Ν	Е	Ζ	Α	Р	_
	Т	Z	Ν	Р	Α	0	Т	Е	R
	Α	Ν	Z	Е	R	I	0	Т	Р
	Т	I	R	0	N	Р	Е	Α	Z
	0	Е	Р	Т	Z	Α	R	T	Ζ
					•				

ME FIRST

		M	Α	C	E				
		Α		U					
	S	C	Н	E	М	E			
		Α				L			
		W	0	R	М	Ε	D		
			W			C	R	0	W
1		1	N	М	Α	T	Е		H
							Α		0
							M	0	M

answer

| Even Exchange

	Even E
	Donna M. Pettr
_	1. Glove, Globe
	2. Slower, Flower
	3. Willow, Wallo
_	4. Alter, Altar

6. Drift, Draft 7. Margin, Marlin 8. Shrub, Scrub

9. Lever, Level 5. Bench, Bunch 10. Tackle, Tickle

— Weekly SUDOKU —— Answer

3 9 8 7 4 1 5 2 6 6 2 3 5 8 9 1 7 1 | 5 | 7 | 6 | 9 | 2 | 4 | 8 | 3 4 3 5 1 7 8 6 2 2 6 4 3 9 7 5 1

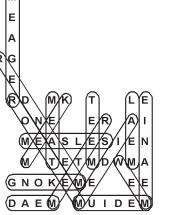
1 2 8 6 3 9 4

6 3 9 1 7 5 2 4 8

2 8 4 9 6 3 1 7 5 7 | 1 | 5 | 8 | 2 | 4 | 6 | 3 | 9

– **King** Crossword *-*

Answers



CryptoQuip

answer If you give boneless beef to a hungry horse in Pennsylvania, is that a

Philly filly fillet? **CryptoQuote**

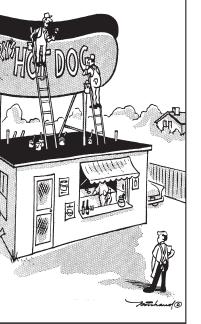
answei

Know how to listen, and you will profit even from those who talk badly. - Plutarch

is available from BearManorMedia.com

Solution time: 21 mins.

5) Salvation Bible Trivia Answers Bethsaida; 4) Micah; 2) 7; Solomon; 3) Casey's trivia book "Know It? ... or Not?" ANSWERS (1) New;



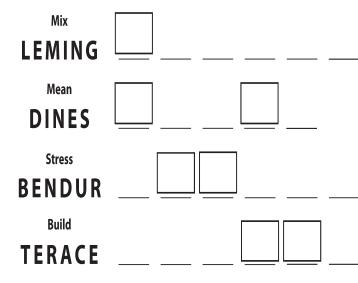
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"With or without

SCRAMBLERS

Unscramble the letters within each rectangle to form four ordinary words. Then rearrange the boxed letters to form the mystery word, which will complete the gag!



TODAY'S WORD

Stickeler's Puzzle



Which of the following numbers is the odd one out?

2745 8457 4233 5519

6271 3865 4773

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Stickeler's Answer on Page 11

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