

A PUZZLING CONCLUSION

by Ken Weber



Missing Animal Life at the Shelburne 4-H

Ruth had entered her twin lambs in the 4-H competition at Shelburne and needed to find something to occupy her young brother, Ben, while she gave the lambs a careful, final grooming. Fortunately, the fact that the word 'lamb' can be found in the word 'flambouyant' gave her an idea. She gave him the clues below and had him find the animal life in each word. (It's no surprise that Ben figured out right away that 'ram' was the answer to the first challenge.)

D _ _ _ A
stage or tv play

P _ _ _ _ Y
made of baked clay

V A _ _ _ _
run away fast

S _ _ _ O T
tap on a barrel

C H _ _ _ L
place of worship

_ _ _ _ E E
beard

_ _ _ M A
system of belief

G R _ _ _
hold

T _ _ _ R U M
fit of temper

L O _ _ _ E
to place

Albion Challenges Garafraxa?

We can only speculate but it's not unlikely that in the days of candles and oil lamps, the early surveyors of Upper Canada entertained one another during idle moments with geometry puzzles. Imagine then, that William Chewitt, who surveyed Albion Township in 1819, once challenged Samuel Ryckman, who surveyed Garafraxa Township in 1821, with the puzzle below.

A	B		C	D
E	F		G	H
		●		
	●			
I	J		K	L
M	N		O	P

1
How many rectangles in the pattern above *do not* include either the black circle or the red circle?

2
Some rectangles in the pattern include only the black circle and some include only the red circle. How many more rectangles are there which include *only the black circle* than rectangles which include *only the red circle*?

3
How many rectangles in total are there in the pattern?
What should Ryckman's answers be?



Another Little Toughie?

At SS #15 Mulmur in Kilgorie, Mr. Stuart was quick to assure his students that even though this challenge looked like another one of his notorious "little toughies," he believed even the younger students could solve it. The key, he told everyone, is to find the right pattern. After that, he said, everything will flow quickly and easily.

Here's the challenge:

Notice that the numbers 1 to 7 have been entered into the grid below. Your task is to enter the numbers 1 to 7 into the other squares so that when you're finished, the grid will have one number in each square, *without any number being repeated in a line, column or diagonal.*

1	2	3	4	5	6	7

A Growing Remainder

What is the lowest possible number that has a remainder of 1 if divided by 2, a remainder of 2 if divided by 3, a remainder of 3 if divided by 4, 4 if divided by 5, and 5 if divided by 6?



Silas Renarm in Palgrave

After a prolonged absence, Silas Renarm felt it was safe to return to Palgrave with another batch of his Potency Potion elixir for sale. As usual he had a puzzle challenge set up to attract customers. This

time he had six glasses standing in a row at one end of his sales table. Glasses 1, 2 and 3 (counting from the left) were filled with water. Glasses 4, 5 and 6 were empty.



"Win a sample of my Potency Potion," challenged Silas, "by rearranging these six glasses so that only alternate ones have water in them. Easy, right? Yes, too easy! So the rule is *you may touch only one glass!*"