



## A Recital in Erin

Students from Grade 7 played classical music at a recital in Erin. Nick was one of them. His parents drove him to Erin from Shelburne, and on the way they picked up Raine and Ramesh in Hillsburgh. Mary lives in Erin. So does Carmela. These five students performed in the recital, three of them each playing a different violin solo while the other two played different piano solos. The music included a piece by Brahms, two pieces by Bach and two by Mozart.

Use the information below to determine in what order these five students performed, which composer each played, and on what instrument.

1

A piece of Mozart's music was the first to be played and one by Brahms was last, and none of the composers were played consecutively.

2

One piano piece was performed between two violin pieces, and two violin pieces were performed between the first and last piano piece.

3

Carmela was the third student to perform.

4

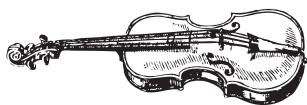
None of Mozart's piano music was chosen for the recital.

5

Raine played a piece by Mozart and was immediately followed by Nick who played the piano.

6

Mary could have played a piece by Brahms but at the last minute decided not to.



## A Challenge for the Carpenter's Apprentice

"This is solid oak," master carpenter Geoff Dillely said to his young apprentice. "Treat it with respect – you rarely see pieces like this anymore. It's from a reredos in a church in Erin. Or was it East Garafraxa? No matter. We are going to use every bit of it to make a square table top.

"Obviously," Geoff continued, "we need to cut into it, and your task is to draw lines showing where we need to make cuts. The challenge here is to make the *least* number of cuts, because we want the *smallest* possible number of pieces from this five-sided piece to make a square. This is not easy, so I'll tell you at least one cut will have to be made from the point indicated. Okay, get started. Show me your stuff!"



Help the apprentice.

To get the smallest number of pieces needed for a square table top, how many lines should she draw? Exactly where do the lines go? How many pieces will result?

## Another Puzzle on the Barber's Mirror

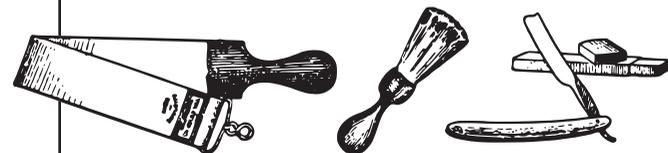
At Hillsburgh's one-chair tonsorial parlour, arithmetic challenges posted on the mirror became quite popular, so much so that the barber added a more challenging twist to this one. The question he posed was,

"How many seconds are there in a year?"

but immediately added the following,

"Yes, yes, there are 31,536,000 – and 31,622,400 for a leap year. But I want *another* answer!"

Could you have provided "another" answer while sitting for your haircut?



## A Six-Letter Word Hunt

In the names of communities around these hills there are many anagrams for word puzzle fans to find. The letters of "Rosemont" for example, can be used to make lots of ordinary words, including "moose," "tenor," "sort" and tons more – like "tons" and "more." But finding everyday six-letter words in "Rosemont" without resorting to the pluralizing 's' is a challenge. We found three: "mentor," "sermon" and "morose." (Yes, there's "enroot," but that's really not an everyday word; "tensor" likewise.)

Here are five community names in the hills. What *everyday six-letter* words can you make from the letters of each community, without using plurals? Which community name offers the largest number of everyday six-letter words?

Caledon Hillsburgh  
Creemore Shelburne  
Orangeville

## The New Blackboard

After the trustees bought a blackboard for Strong's School (S.S.#1 Albion) in 1872, the teacher found new ways to test each week's spelling words for the Senior Fourth class. Because many of these students would be absent during spring seeding time, on Monday of the last week of March the teacher doubled the usual five spelling words per week to ten. On the new blackboard he wrote this list:

ely	rec	ant	htn	fer
ort	ent	cer	por	sin
lig	ian	lio	row	use
rar	lib	ive	tfo	sca
ing	ing	far	eth	som
dif	est	dig	imp	mho

## at Strong's School

"This week's ten words," he told the students, "are each nine letters long, which means they can be broken up conveniently into the 30 three-letter strings you see here. Your challenge is to use *each* of the strings *once* to assemble the ten words. One of the ten words, by the way, means 'significant,' and another you might use at the end of a letter."

What are the ten words?