



Welcome, welcome, all you students . . . here we are again, ready for another stab at a few interesting and educational puzzles and problems. The reader isn't required to be exceptionally good in mathematics to enjoy this week's column, so grab a pencil and join in the fun. Or just read the riddles I threw in for good measure.

This seems to be 'game week' for me, or at any rate a couple of games are all I could dig up to start the season. No doubt you have played a little game in which you take turns counting one, then two, and so on, until a player comes to a number divisible by seven, or with a seven in it, like seventeen, and in place of which he shouts 'buzz'. Well, that's all right for kids, but here's a more interesting one.

Start counting going clockwise, the same as before, but this time say 'buzz' whenever you come to a number of the form $(5a + 7b)$, where a and b are non-negative integers. (The first buzz comes right after 4, another replaces 12.) There is something very peculiar about this game. Can you figure it out?

For the more mathematically inclined, here's a little exercise in number theory. Where P and Q are two given positive integers, relatively prime, (that is, they have no common factors) and x and y are non-negative integers, prove that all integers greater than or equal to $(P-1)(Q-1)$ can be expressed in the

form $Px + Qy$. As an example, try P equals 5, Q equals 7.

Here's a good game for two bored students. Put 21 pennies, or checkers, or cigarettes, on a table. By taking turns, and picking up one, or two, or three at a time, one player will be forced to pick up the last one. He loses. If you like you can play a variation, in which the player who picks up the last one wins. In any case, one of the players will have a decided advantage. Which one?

I promised some riddles, so here they are.

Why is an empty purse always the same? (Because there's never any change in it.)

Why is a baseball game like a cake? (Because its success depends on the batter.)

What geometrical figure represents a lost parrot? (A polygon.)

By now.

NICKEL IN WORLD MARKETS... JOBS FOR CANADIANS



How Canadian Nickel helped England's Hovercraft get off the ground

Hovercraft went into service last year in England, where they were invented and built. These strange craft actually ride on a cushion of air and, after take-off, are completely free of contact with the ground or water. Making the Hovercraft a reality called for great skill and the use of the finest materials. And, in this latter regard, Canadian nickel helped. Why nickel? Because it is strong, durable, corrosion resistant. Nickel is used in the Hovercraft's transmission system and hydraulic and fuel pipes; nickel-containing steels are used in the general structure, and heat-resisting nickel alloys are used extensively in the engines. The growth of nickel markets at home and abroad helps strengthen Canada's economy and helps provide jobs for Canadians.

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Friday, Sept. 27 7:45 p.m.

- DISCIPLINE NOTICE**
1. Any student at a student function displaying the fact that he has in his possession intoxicating liquor shall have his name reported to the S.D.C., shall have that liquor confiscated, and shall be asked to leave the function by the Campus Police.
 2. Students making a display of profane language at any student function are liable to discipline through a report from the Campus Police to the S.D.C. (and which will result in a fine).
 3. Unbecoming conduct at a student function may result in discipline through the S.D.C., acting on a report from the Campus Police.
- Signed John E. Marshall
Campus Police Chief

Eating Out Blues

This is a song composed and written down on a bedraggled paper napkin — it was penned by some of our talented freshman as they waited hungrily — and too long — for service in a local eating establishment.

Sung to the tune of "Hello Muddah, Hello Faddah"

- (1) We want service with a smile,
Though it might take quite a while
(START AGAIN)
- (2) We want service on the double,
If we don't get it, there'll be trouble
(START AGAIN)
- (3) We want service very quickly,
Though the food looks rather sickly.
Starving Frosh.

WANTED

Car, capable of carrying six passengers, to transport UNB Cross Country Team on weekend trips.

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2 trips to Bangor, Me.

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