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PUZZLES

ON GUARD!

THE Assistant PP (pro tem) is still struggling manfully with the ramifications of the problems and the correspondence on the same which have been bequeathed to him by the PP (who is still on holiday). After hours of work over two particular problems which involved guarding six posts with guards, keeping a weather eye on a sergeant of guards, and talking about watches and whatnot with a guard on a train, he is convinced he was caught off his guard when he took over the whole business. Anyway, he is not going to attempt to solve any of the problems himself, but leaves that particular pleasure for the PP when he returns. And, by the way, when he does return, we have a bone to pick with him. We discovered it when digging around in his back garden. It was the missing solution to Crossword No. 19, so we've included it in The Page this week.

And now for the answers to the problems in the issue of August 9:

ANSWERS

Condensed Crossword:

BOSS
ANNA
SCAN
KEGS

Along the Waterfront:

His number was 204, and the last of the row was 288. For the upper ten, who might prefer to work this sort of thing out according to the rules, we give Captain Cook's method:

If the number of my house be X and the last number of the row be Y then $1+2+\dots+(X-1) = (X+1) + (X+2) + \dots + Y$; or: $Y(Y+1) = 2X^2$ squared. From this the conditions under which $8X^2$ squared + 1 is a perfect square, must be examined. Within the restrictions imposed by the problem it may be seen that the X and Y values show an interesting pattern:

X values	Y values
0	0
1	1
2	
3	
4	
5	
6	8
35	49
204	288
1189	1681
6930	9800

The numbers 1 2 3 4 and 5 are inadmissible.

Any value of X is 6 times the preceding one minus the one before that, while the Y in any term is seen to be given by the sum of its own X and the preceding pair. ($49=35+6+8$).

Time for the Guard:

This was the problem which Puzzled of Waihi Beach asked us to submit to public scrutiny since he did not know the answer himself. Neither does the PP (pro tem) so here is the only solution to hand. It was sent in by R. Martin, Glen Afton. After what looks like a nightmare of higher mathematics to the PP (pro tem), he arrives at the answer of 22 1/3 chains. He has even gone further and shown how the speed of the train can be calculated from the times given by the guard's watch. He claims

it is 61.47/73 m.p.h. The PP (pro tem) doesn't propose to question it. What do you think?

Sentry Duty:

The quickest way to change the positions of A and B is for the privates to move as follows:

ABCADEACBDCACEDBA. This entails 17 moves, so the time for them to go off duty is 170 minutes past noon, which is 2.50 p.m.—(Problem and answer from G. Tisbury).

PROBLEMS

Kindergarten Finance

Said Kitty to Harry, "Give me one of your halfpennies and I can buy an apple for baby and one for myself and you will have just enough money left to buy one for yourself."

"No," replied Harry, "baby has no teeth, and could not eat an apple. You give me one of your halfpennies and

then you and I can each buy an orange and baby can watch us eat them."

How many halfpennies did each have?

—(Problem from R.J.G.).

Condensed Crossword

(Each word is of four letters)

CLUES ACROSS:

A girl and a mathematician's favourite.

Digs in the ground.

Around a lagoon we drop an I.

Do it again, as above and unknit "the ravelled sleeve of care."

CLUES DOWN:

Short for a happy time.

Unintelligent—just pure memory.

Worse than a lemon.

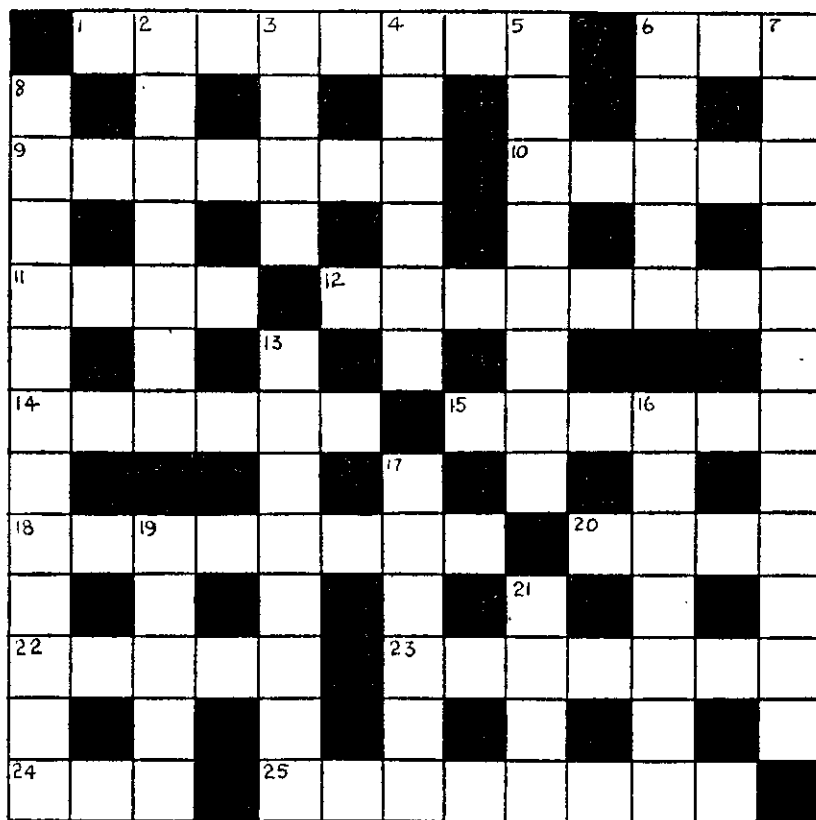
If you can't do this, don't do what the dog does.

One for the Tiny Tots

Even the PP (pro tem) can work this one out, but he doesn't know why it should be so. A farmer dies, leaving his three sons to share his seventeen horses so that the eldest gets 1/2, the next gets

(Continued on next page)

The Listener Crossword (No. 21)



Clues Across

1. Len tries to give you a familiar weekly.
6. This may stick you.
9. Leavens in order to take captive.
10. Acquire knowledge from Arlen.
11. A Conservative from an ancient city.
12. Maligns by the spoken word.
14. The Duke of Windsor's new headquarters.
15. Beg ale for a hunting dog.
18. Certificates of merit for mild soap.
20. A game with overturned kitchen utensils.
22. If I am taken away from Taleri the rest is angry.
23. Artificial charm is a rum goal.
24. A bovine mammal from Central Asia.
25. This is a pure one.

Clues Down

2. One form of sunrise.
3. What may melt.
4. Difficult to locate in a haystack.
5. Softened by a confused impression after a jumbled dance.
6. An angry look may nevertheless be regal.
7. Pier seems new (anag.)
8. The radio names of two famous sisters (4, 3, 5.)
13. Noel's age gives you the clue to this motor spirit.
16. This boat is no go, lad.
17. This is German in a way, so perhaps the dog in it is a dachshund.
19. If you had to walk this, there would be no return journey.
21. To strike this is certainly not to break it.