

as A, E gets out at Stewart's Gully and A at Kaiapoi. — (Problem and answer from R.G.).

Clocks: Midnight on Wednesday. — (Problem and answer from R.G.).

## PROBLEMS

### Condensed Crossword

(Each word is of four letters)

#### CLUES ACROSS:

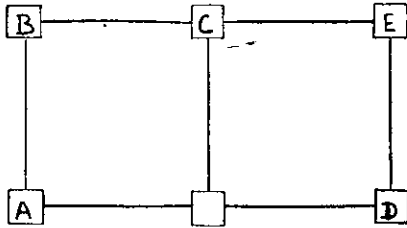
- Sobs changed for a top fellow.  
 Palindrome for a girl's name that is used in India as a means of exchange.  
 When verse does not — it is said to have no proper plan.  
 Often seen in cellars, and sometimes the sack is in them in a sack.

#### CLUES DOWN:

- Put the question and where will you be in the sun?  
 If it happened this it did not happen often.  
 From the fact that she sang she was known as this.  
 Shakespeare was without much French, but he had enough to use this one.

### Sentry Duty

The diagram printed with this is a plan of six posts which have to be guarded by five privates. There is one vacant post. The sergeant of the guard, it seems, has an ingenious mind. He rules that the sentries can only move along



the lines indicated, and that only one private can move at a time. At no time must there be more than one private at one post. When A finds himself at the post where B starts, and B at the post where A starts, the five privates may go off duty. They take their posts as shown at noon. Each man takes 10 minutes to move from one post to another. If no time is wasted, at what time will they go off duty?—(Problem from G. Tisbury).

### The LISTENER CROSSWORD

(Answer to No. 18)

A	P	I	E	C	E	A	B	S	E	N	T
G	N	A	S	A							I
E	N	G	L	I	S	H	R	O	W	A	N
N	R	N	I	O	E	Y					
T	S	A	R	A	B	U	N	D	A	N	T
	T		S	B	E	T	I				
A	M	I	T	R	O	U	T	H	A	M	
N	T		R	L	S	E					
E	D	U	C	A	T	E	S	B	R	A	E
M	D	S	T	E	W	L					
O	D	E	T	S	H	E	L	P	I	N	G
N			E	S	S	S	I				
E	M	B	E	R	S	S	E	V	E	R	N

### Along The Waterfront

A row of nearly 300 houses was built facing the sea. They were numbered consecutively from end to end. One day, in a contemplative frame of mind, Captain Cook realised that the number of his house was most unusual. If all the numbers before his were added, the sum was identical with that of all the numbers after it. What was the number of his house?—(Problem from Captain Cook).

### Time For The Guard

This is one of several puzzles for

which "Puzzled," Waihi Beach, asks answers:

The guard on a train heard the first stroke of 5 from a clock on a bridge which the train was approaching in a straight line. He noted the time as 1 2-5 secs. past 5 by his watch, which was right by the clock. The engine of the train passed under the clock at 13 2-5 secs. past 5, and the guard heard the last stroke of 5 at 30 1-5 secs. past 5. The clock took 29 1-5 secs. to strike 5. If sound travels at the rate of 1100 feet per second, how long was the train?

## CORRESPONDENCE

C. L. Allen (Sumner): Shunts correctly, rings the changes on the bottles of wine, makes Sprinter win by four yards, and sends a problem about the tide which we have used before; but thanks all the same.

P.J.Q. (Motueka): Weighs the bricks, shunts the trucks, and shifts the bottles, all correctly.

H. A. Martin (Wairoa): Shows that there is more than one method of shifting the trucks.

Puzzled (Waihi Beach): Thinking over those others.

L.W.R. (Nelson): Disagrees with R.G.'s answer to his problem of the five travellers.

Says that B alights at Riccarton, C at Papanui, D at Belfast, E at Stewart's Gully, and A at Kaiapoi. Who is correct?

G. Tisbury: Thank you for that good problem. As you see, the trucks could be changed over without "slipping."

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