You can be a detective

A smuggler carries 12 identical table tennis balls in his hand luggage and manages to get past during check-in at the airport. He hides 200 mg of diamonds in one of the balls. Few minutes after the take-off, the airport authorities come to know through an anonymous call that a passenger is smuggling diamonds in table tennis balls. On arrival, custom officers detain the smuggler. Without smashing any balls, in three successive weighing measurements, the intelligent custom officer picked out the ball containing diamonds. If you were the custom officer how would you do it?

Answer

Contributed by Dr. M. Meyyappan; Address: 74, Church I Street, New Town, Karaikudi-630001, Tamil Nadu; Email: meydhnam@gmail.com

There are three prizes of Rs 500/- each for three correct entries. In case of a large number of correct entries, the prize winners will be selected through a draw of lots. The decision of the Editor, Science Reporter will be final.

Send your entries to:
Puzzle Corner
Editor, Science Reporter
National Institute of Science Communication & Information Resources (NISCAIR)
Council of Scientific and Industrial Research (CSIR)
Dr KS Krishnan Marg, Pusa Campus
New Delhi-110012

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Pin code: .........................................................................................
Age: ........ Email: ................................................................................. Sex: ............

Occupation: [ ] Student [ ] Housewife [ ] Teacher [ ] Professional [ ] Retired [ ] Other

Educational level: [ ] Primary [ ] Secondary [ ] Graduate [ ] Postgraduate

- Please fill up the questionnaire at the back
- You can send your answers on a photocopy of this page as well.

Last date for the entries to reach us: 05-12-2017
TOXIN SEARCH

Search the 20 toxins hidden amongst this grid in any possible direction — horizontally, vertically, diagonally or even backward.

A H J U T I B O T E N I C A C I D E
B M C F O T E T R O D O T O X I N R
R U A E Y U P I S C O V O R I N H
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N G C N I D E G H I U K L A G H I Y
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D S E K I G Q E A S D H K L E A X N
E P R I D N E T R E A S Y I T E G A
S E A G B A E O C Y S T I N U O N C

Contributed by Miss Shatavisa Mukherjee, Department of Clinical & Experimental Pharmacology, School of Tropical Medicine, Kolkata; Address: 108, C. R Avenue, Kolkata–700073, West Bengal; Email: shatavisa100@gmail.com

Solutions to the puzzles published in the September 2017 issue

PRIZE PUZZLE: RANKING TEST
Answer: 14
Number of girls = 40
Number of boys = 20
Number of boys ahead of headgirl = 6
Number of boys after headgirl = 20 – 6 = 14

ELEMENTS SUDOKU

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SPOT THE DIFFERENCE

The prize winners on the basis of draw of lots from among the correct entries are:

- **Chiranjib Tripathy**, At Dinaudhara, PO Sangalatassan, Puri, Odisha-752104
- **Bora Suman**, 43-3-22, Sreeja Residency, Flat 401, Railway New Colony, Third Lane, Visakhapatnam, Andhra Pradesh-530016
- **Sachdeep Singh**, 71/C, Sainik Colony, Jammu, Jammu & Kashmir-180011

Congratulations all the winners!

LAB SAFETY SIGNS

1.__________  2.__________  3.__________  4.__________

5.__________  6.__________  7.__________  8.__________

Contributed by Sonam Choudhary, Research Intern, Science Reporter, CSIR-NISCAIR, New Delhi