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GOOD.PREPARE

TO HOVER OVER

THE SURFACE

AND CAPTURE









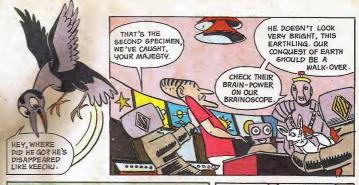
















































































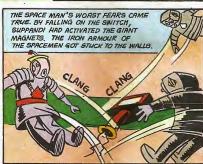






I'LL GET YOU,























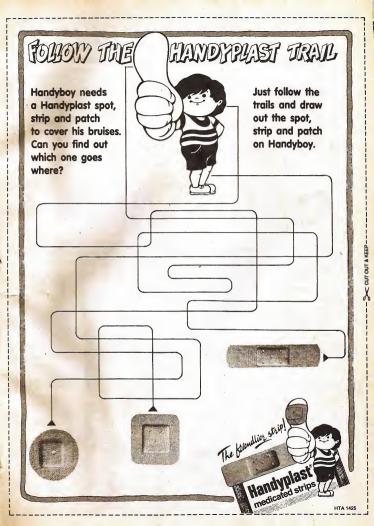












### To celebrate the 200th issue of Tinkle, we have a special contest for you



### Adventures of Aiav

Ajay, a clever 12-yearold boy.



Jeetu, the trained pet dog.

Here is an opportunity to contribute a new serial for Tinkle.

Using these three main characters, you must create a new feature for Tinkle. You can add other characters around the main three, create situations and locations, add humour, mystery, fun and fantasy. Send your story in about 500 words to reach us on or before July 14, 1990.

Prizes: Rs. 500, Rs. 300, Rs. 200 and tive consolation prizes of Rs. 100 each. No age limit.



Jhatku Singh, the neighbourhood wicked guy.

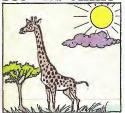
#### BULES:

Send your entries to Tinkle Competition Section, Post Bag 16541, Bombay-400 026. 2) In all stones, for which a prize is awarded by us and accepted by the readers, the copyrights will remain with India Book House Pvt. Ltd. 3) The decision of our panel of judges will be final and binding.

### See and Smile

Based on an idea sent by: Syed Ayyub

Plot No. 30, Sector 12, M.V.P. Colony Vishakhapatnam 530017, A.P.





Based on an idea sent by: Master Rishab Arora B-25, RH-3 Sector 8, Vashi, New Bombay.

OKAY, TELL ME ...









### EDITOR'S PAGE

My young friends

I am pleased to present you the 200th issue of Tinkle. In the very first issue of Tinkle, I had told you a story of Ramu and Shamu, the five-yearold twins. They hear the young ones of a crow repeating only one word. 'Caw', and kittens saying only one word, 'Meow'. They ask their Daddy, "Why did you teach us so many words? Now we have to go to school and learn so many things. If you had taught us only one word, we too would have repeated only one word like 'Caw' or 'Meow!"

Over the years, Ramu and Shamu have learnt a lot by asking questions like, "Who? What? How? When? Where? Why?" Of course it was not easy for either their teachers or their parents to answer their questions.

Once after teaching the children how to spell CAT, RAT and BAT, the teacher rubbed off the words on the blackboard and asked, "Any questions?"

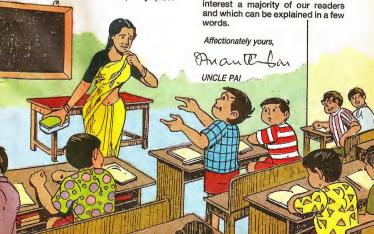
Ramu got up and asked, "Miss, could you tell where all those words have gone? Into the blackboard? Or into the duster?"

Early one morning, Ramu asked his father, "Now where has all the black gone and hidden?"

"You mean the dark, Ramu," said daddy. But he could not answer Ramu's question not because he did not know the answer, but he found it difficult to explain in words that Ramu could understand.

We have recently started the column, "Tinkle tells you why". We have already received over 1,500 questions. Certainly it is not possible to answer all of them. But all those who have asked questions will be sent stickers and book-labels. Therefore, do keep sending questions.

We select questions which would interest a majority of our readers



# Tinkle Super Quiz

1.



(a) What is my main weapon?



(b) Who am I?



(c) Where do I live?

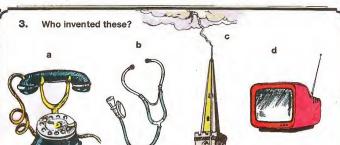


(d) What is my staple food?

2. There is something unusual about these Tinkle characters. Spot the change.



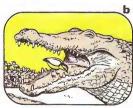
INKLE 1



### What is happening here?









#### Prizes for Tinkle Super Quiz

- 1. Mail your entry to: Tinkle Competition Section, P.Bag No. 16541, Bomby 400 026.
- 2. The first 50 all-correct entries received by us will each receive a set of "Quiz Time with Uncle Pai"
- 3. All the correct entries received before the first of next month will each receive a TTT stamp.
- 4. Those who collect 10 such stamps and send it to us will each get a copy of a bumper issue of Amar Chitra Katha absolutely free.
- 5. This offer is open up to August 1991.

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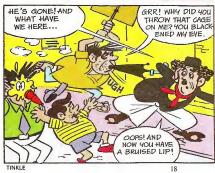








































## Tinkle Tells you WHY

### What causes hiccups?

Shailesh Agarwal, 113/8 Sonal Apartments, J.P.Nagar, Road No.2, Goregaon (East), Bombay-400 063



During normal breathing, the diaphragm, which separates the chest (thorax) from the stomach (abdomen) moves up and down regularly and rhythmically. The contraction and moving down of the diaphragm allows more air to come into the thorax as we breathe in. When the diaphragm moves up, the air is pushed out as we breathe out. At times however, the diaphragm contracts suddenly. Air from outside rushes into the lungs iust as the upper end of the windpipe is about to close. This causes a 'hic' or 'puck' sound.

The cause for the sudden contraction of the diaphragm can be spicy food, excessive intake of alcohol, or even mental tension. Although a wide variety of cures are suggested, drinking a glass of water or deep breathing generally stops of the hicrups.

### Why does a flame rise upward?

Apoorva Sharma, A/2 Deep Sagar, Bank of Baroda Society, Andheri (East), Bombay-400 069.

A burning fire is the process by which a substance combines with oxygen of the air producing light and heat.

A flame is the zone giving out heat and light and is filled with hot gases. The hot gases of a flame are thinner or less dense than the surrounding air and therefore, always rise up. This is why the flame of a matchstick always points upwards.

The natural position of a flame is vertical with its tip on top.



### How do spaceships re-enter the earth's atmosphere without burning up like meteorites?

Anil Kumar, 8/10 Norton Road, Mandaveli, Madras-600 028.

A spacecraft returning to earth is subjected to extremely high temperatures because of the heat generated by its friction with the earth's atmosphere.

A spacecraft is provided with a heat shield to protect it during re-entry. The heat shield is made of specially formulated plastic material which melts,

vaporizes and carries away the boundary layer heat. Insulation behind the heat shield keeps the interior of the spacecraft at a constant tolerable level.

Without its heat shield, the spacecraft would indeed disintegrate into a long white trail of melting matter, as meteorites do when they plunge through the earth's atmosphere.



#### Do dogs dream?

Apurva Patel, 51, Utpal, 3rd Road, Juhu Scheme, Vile Parle, Bombay-400 056.

When we see our pet dog twitching his nose and moving about while asleep, we say he is dreaming of catching cats and rats. But we cannot conclusively prove whether or not dogs dream. Scientists have observed, through the study of human volunteers that dreams mostly occur during the state of sleep when there is rapid eye movement (REM) under closed lids and a

change in brain waves.

This state of sleep has also been reported for all mammals studied e.g. monkeys, dogs, cats, rats, elephants, shrews and opossums. We must remember, however, that though man resembles animals in many ways, the brain and senses of each species is evolved differently. Animals perceive the world in a different way than we do. We do not

know therefore whether dogs have dreams or vision as we do.





### Why does a diamond sparkle?

Pooja Sharma, 95, C.G.S. Colony, Wadala rWest) Bombay-400 031 Its hardness and brilliance are the two main characteristics of a diamond. In the natural state, when it is mined, the diamond may have a rather dull appearance. Expert workers cut the natural diamond with special tools so that it acquires many facets or "little faces". There are many ways in which a diamond can be symmetrically cut-each with a special name – the marquis cut, the emerald cut etc. The most common is the brilliant cut with 58 facets (33 above and 25 below)

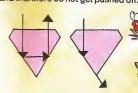
Because of a special property of diamond (a high refractive index of 2.4 compared to 1.4. of glass) and the multiple facets, the light entering a diamond is bent several times inside, before it emerges out. This makes a diamond seem to glow from inside and sparkle and flash with tiny bursts of colour.

### When the earth revolves around the sun, why don't we fall off?

Munish Kumar Sharma, 169/1 North Mahavir Delhi Road, Meerut-250 002.

With the earth spinning about on its axis and revolving around the sun, it does seem strange that people on earth are not tossed about or pushed off the surface. In fact we do not even feel the earth moving. This is because we go along the surface as it moves and so do the objects and the air that surrounds us. It is the gravitational force of the earth that holds everything down. It is one of the basic facts of the universe (discovered first by Newton) that all objects pull one another. The strength of this attraction depends upon the distance between the objects and the amount of matter or mass. Objects with a larger mass have a greater power of attraction than objects of a smaller mass. The earth with its enormous mass attracts all objects which are less massive.

All objects on the surface of the earth, including you, me and the sea, are pulled towards the centre of the earth by its gravitational force and therefore do not get pushed off.



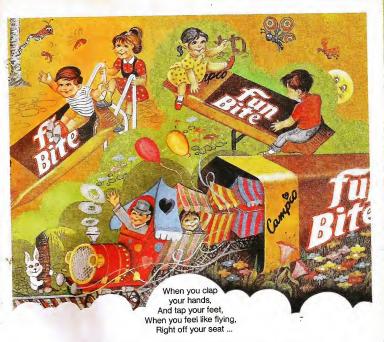
### Tinkle tells you why

Do you have any questions about the world around you?

Send them to: Editor, Tinkle, P. O. Box No. 16541

Bombay-400 026.

If your question is printed you'll be paid Rs. 20/-Others, who send self-addressed envelopes, stamped with 50-Paise stamps will receive book labels or stickers.



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### WRONG NUMBER Readers' Choice

Based on an idea sent by: Ajay Sundaram 43/219, Gokulam Sion (E).
BOMBAY-22

Illustrations: Sunny Mishra







Mooshik

Based on an idea sent by: Ms. Shehnaz Pardiwalla, Z, Ararat, 89, N.M. Road, Bombay-400 023.







-CUT HERE --

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CRUNCHY, MUNCHY SWEETS 3 The coconut **nutrine OOKIES** 

Visesh/NC/8815

## WHAT'S FOR DINNER?

Script: Prasad Iyer Illustrations: Anand Mande

HELLO, FRIENDS, SO WE MEET AGAIN.
AFTER MY ADVENTURE WITH THE SPACE
INVADERS I PECIPED TO RELAX AND
READ FOR A WHILE.



AND THE BOOK I MAPPENED TO READ PESCRIBED THE AMAZING WORLD OF ANIMALS. INDEED I WAS ASTONISHED BY THE DIFFERENT TYPES OF CREATURES THAT LIVE ON THIS PLANET AND THE TRULY AMAZING HABITS AND MANNERISMS SOME OF THEM HAVE.



SPIDER IS ONE SPIDER THAT SNARES ITS PREY DIFFERENTLY

THE CHAPTER WHICH I'VE JUST FINISHEP READING WAS ABOUT THE STRANGE WAYS IN WHICH SOME CREATURES CAPTURE THEIR PREY. SO I WOULD LIKE TO TELL YOU WHAT I HAVE READ.





THE PURSE-WEB SPIDER, WEAVES A WEB UNDERGROUND WITH A PIECE STICKING OUT. THE SPIDER LURKS HERE AND WHEN AN UNSUSPECTING INSECT PASSES BY, IT REACHES OUT...







Story by: Ms. Indira Ananthakrishnan

> Script: Margie Sastry

Illustrations: Ram Waeerkar PYARELAL AND HIS WIFE LAJWANTI YES, ENOUGH HAD A SMALL FARM IN TARAKPUR. FOR OUR DAILY NEEDS, AH.A GOOD HARVEST! Вит ... WE'LL HAVE A COMFOR-TABLE SEASON.



































































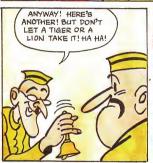


















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