# **30-MINUTE ACTIVITY FOR CHILDREN - 53**

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### Fun facts 1. Tarsiers cannot move their eyes Found on the islands of Southeast Asia, these tiny primates leap from tree to tree in search of insects and lizards. What is striking about them are their over-sized, round eyes. However, they cannot move their eyes around as their eyes are fixed within their eye sockets. To make up for the drawback, tarsiers have the ability to turn their head 180 degrees in each direction to spot prey as well as predators. Q. Can you name another animal that has large, fixed eyes? 2. Tech tale Bluetooth technology was named after a 10th-Century Viking king, Harald "Blatand" Gormsson, who ruled Denmark and Norway from 958 to 985. Gormsson was known for bringing people together through non-violent ways and excellent communication skills. He had a nickname "Blatand" which in Danish translates to "Bluetooth" in English. It was reasoned that just as the king united Denmark and Norway under his rule, the wireless technology seamlessly united the PC and other cellular devices. Q. Can you find out who came up with that name for the wireless technology? ารอกาดินร 2. Jim Kardach, an Intel 1. OWL Answers

### Know the scientist

Chien-Shiung Wu (1912 - 1997) is a Chinese-American physicist, who is known for the Wu Experiment that she carried out to disprove a quantum mechanics concept called the Law of Parity Conservation. But she was overlooked by the Nobel Committee, when theoretical physicists Tsung-Dao Lee and Chen Ning Yang, who worked on the project, were awarded the Prize in

Chien-Shiung Wu was born in a small town in Jiangsu province, China, in 1912. She studied physics at a university in Shanghai and went on to complete Ph.D from the University of California, Berkeley in 1940. She was elected to Phi Beta Kappa, the U.S. academic honour society. Later, Wu taught at Princeton University and at Smith College.

In 1944, during WWII, she joined the Manhattan Project at Columbia University, focussing on radiation detectors. The Manhattan Project was a research and development undertaking that produced the first nuclear weapons.

After the war, Wu began investigating beta decay and made the first confirmation of Enrico Fermi's theory of beta decay. Beta decay is a radioactive



PHOTO: WIKIMEDIA COMMONS

process in which a beta particle is emitted from the nucleus of an atom, thereby changing the atomic number. Her book Beta Decay, published in 1965, is still a standard reference for nuclear

In 1956, theoretical physicists Tsung Dao Lee and Chen Ning Yang

approached Wu to devise an experiment to disprove the Law of Parity Conservation, according to which two physical systems, such as two atoms, are mirror images that behave in identical ways. Using cobalt-60, a radioactive form of the cobalt metal, Wu's experiment successfully disproved the law.

In 1958, her research helped answer important biological questions about blood and sickle cell anaemia.

She is fondly remembered as the "First Lady of Physics", the "Chinese Madame Curie" and the "Queen of Nuclear Research."

Now that you have read about Chien-Shiung Wu, try answering the following questions.

1. Which quantum mechanics law did Wu disprove?

2. Which theory of Enrico Fermi did Wu confirm through her research?

> 2. The Theory of Beta Decay CONSENATION. Answers: 1. The Law of Parity

### Fun with numbers

12345678987654321898 10526844512169344562 12345705367358065567 12345678987656548368 56982045796415698698

From the sequence of numbers given, find the number

4156

86986951796724028698 TS3456789896876848368 72345705367358065567 2959569121576935501 86812E#S9286829S#EZ1

#### Word of the day

#### Touché

The word is expressed as an exclamation when someone gives a fitting or witty reply in an argument. It is pronounced "two-shay".

**Origin:** This French word, now commonly used among English speakers too, is from the Old French word touchier, meaning "to hit". It was used in fencing to acknowledge a hit. Around the 20th Century, the word is believed to have been gradually used outside of the sporting context.

**Example:** "But, the point is, you didn't do it," she grinned. "Touché," he said.

#### ACTIVITY

Use the word of the day in a sentence of your

# What's the good word?

Many words have more than one meaning. In the sentences below, write down one word that fits both the descriptions

1. A species of bird; to move very

2. A device through which water flows; a gentle pat.

3. The stalk of a plant; to originate. \_

4. The dark, central area of the eye; a student. \_

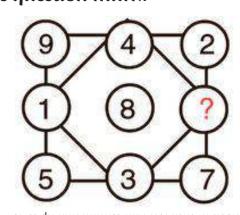
5. A toy that spins; the highest



Answers: 1. Swift, 2. Tap, 3. Stem, 4. Pupil, 5. Top.

# Missing number

What number will replace the question mark?

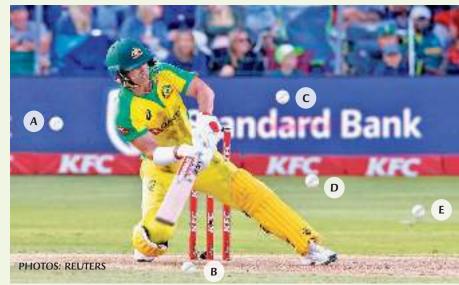


The numbers in each row and column add up to 15.

Answer: 6

(Content provided by Amrita Bharati)

# The W Corner



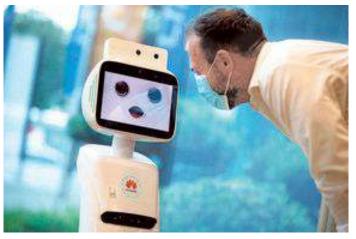
**WHICH** is the original ball? While one of these balls is the actual ball that was in play in the T20 game that was played between South Africa and Australia in February 2020, the others have been introduced by us. Can you spot the right one?



# Picture story

Come up with a witty caption for this photo

Hello, doctor! A 5G-robot, that is able to measure the temperature of a person and monitors whether they are wearing masks, following the coronavirus disease (COVID-19) outbreak in Linz, Austria. Can you sum up the picture in a few words. Be creative!



### Journal Writing

#### Dear Diary

Today, I am going to confess something to you...

Use your imagination and write a note in 150 words. Mail it to school@thehindu.co.in with the subject line: Journal Writing. The best pieces will be published on Page 3 in the Inbox column from Monday to Friday.