

## Aryabhata Ganit Challenge (AGC) 2021

### Guidelines:

1. Aryabhata Ganit Challenge-2021 (AGC) will be hosted on DIKSHA platform and MyGov from **31<sup>st</sup> August 2021 to 30<sup>th</sup> September 2021**.
2. Theme of the AGC-2021 is **India's Mathematical Heritage: शून्य से शिखर तक**
3. Students from class 8 to 10 irrespective of the Board are eligible to participate in this challenge.
4. To access the challenge, a student needs to join the “**Aryabhata Ganit Challenge - 2021**” course on DIKSHA or MyGov Platform.
5. One can access the course via DIKSHA and MyGov Portals through computers or via DIKSHA app on Android mobile.
6. iPhone users can access AGC challenge on any mobile browser. One must have the latest version of the DIKSHA App from Playstore to access the Challenge.
7. Aryabhata Ganit Challenge-2021 will be available in two languages, Hindi and English.
8. In AGC Module -I, participants can see videos and read textual material for reference and knowledge promotion.
9. Module-II, is the Challenge to be attempted by the participants.
10. Participation certificates will be issued online to all the participants upon 100% completion of the module-I and module-II.
11. No merit list shall be displayed or separate certificates will be issued to the participants.
12. There will be 25 questions to be attempted in 40 minutes.

### Sample Questions AGC (2021):

**Q1.** The Fibonacci sequence is a series of numbers where each element is obtained by adding its two preceding numbers. Starting with 0 and 1, the sequence is 0, 1, 1, 2, 3, 5, 8, 13, 21, 34.... Mathematician \_\_\_\_\_ described the [Fibonacci sequence](#) in 1150, more than fifty years before [Fibonacci](#) (1202).

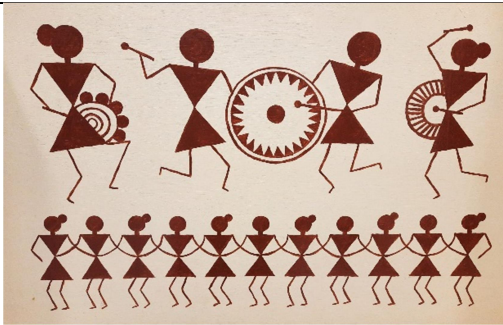
- A. Hemchandra
- B. Shridhar
- C. Govindswami
- D. Varahamihira

**Q2.** Which Sutra, discovered 1000 years before Pythagoras is same as the Pythagoras Theorem?

- A. Brahmagupta
- B. Bodhayan
- C. Katyayana

D. Shulva

**Q 3. Which of the following Indian art forms uses the concept of symmetry and fractals, which is the art of recurring designs?**



**WORLI ART OF MAHARASHTRA**



**MADHUBANI FROM BIHAR**



**KOLAM FROM TAMILNADU**



**PHAD PAINTING FROM RAJASTHAN**

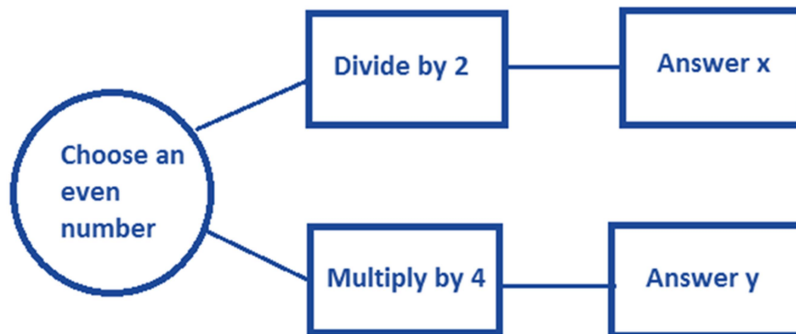
- A. Maduhbani
- B. Phad
- C. Worli
- D. Kolam**



**Q 4.** Which of the following books was **NOT** written by the mathematics genius shown in the picture?

- A. Figuring the joy of numbers
- B. In the wonderland of numbers
- C. Awaken the genius in your child
- D. Zero to infinity

**Q 5.**



Here,  $(y - x)$  will always be a

- A. Multiple of 2
- B. Multiple of 3
- C. Multiple of 5
- D. Multiple of 7