

Chapter 3 Class 6

Ganita Prakash -

Number Play

- MCQ Worksheet 2

by *teachoo*

Chapter: [Chapter 3 Class 6 Ganita Prakash - Number Play](#)

Name: _____

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1. A financial analyst uses a "Supercell" model to find stocks that are "local peaks" in a portfolio list. This method is most effective for:
 - a) Finding the single best-performing stock overall.
 - b) Identifying stocks that are performing better than their immediate peers in the same sector list.
 - c) Calculating the average performance of the portfolio.
 - d) Finding the stocks with the lowest performance.

2. An ancient puzzle involves a 3-digit number. When the "Kaprekar Routine" is applied, it consistently leads to 495. This happens because:
 - a) 495 is a universal mathematical constant for all number operations.
 - b) It's a coincidence for most numbers.

- c) The subtraction of the smallest arrangement from the largest for any 3 distinct digits creates a number whose digits always sum to 18 , leading to permutations that converge on 495.
- d) All 3-digit numbers are magical.
3. A car's odometer, which shows a 5-digit number, currently reads 47974 km . What is the minimum number of kilometers the car must be driven to show the next palindromic number?
- a) 100 km
 - b) 1 km
 - c) 10 km
 - d) 110 km
4. Two students are debating the Collatz Conjecture. One claims to have found a starting number that creates a sequence that never reaches 1 . If this claim is true, it would:
- a) Prove the student is a mathematical genius.
 - b) Mean the conjecture, a famous unsolved problem, is false.
 - c) Likely be a calculation error.
 - d) Be either (b) or (c).
5. A system requires a 5 -digit access code with a digit sum of 3 . To make the code as small as possible (e.g., for a low-security area), which code would be chosen?
- a) 30000
 - b) 10002
 - c) 11100
 - d) 10200
6. From a distance, an observer sees a line of people and is told their "Taller Neighbour" scores are 1, 2, 1 . What is the most logical conclusion about the number of people in that segment of the line?

- a) There are 3 people, arranged short-tall-short.
 - b) There are 4 people, with the two in the middle being the shortest.
 - c) There are 5 people, with the middle person being the shortest.
 - d) It's impossible to tell.
7. Which of these real-world scenarios is 'Always True'?
- a) The total sales from two years, both 5-digit figures, will result in a 5-digit total.
 - b) A 5-digit inventory count, after subtracting a 2-digit number of items sold, will remain a 5-digit number.
 - c) The largest value in a dataset is always a "supercell" or local peak.
 - d) A date like 01/01/2000 can be reused in the future with all days aligning perfectly.
8. A warehouse manager stacks three types of boxes with weights 10 kg, 20 kg, and 30 kg on a vertical shelf. A box is a "pressure point" (supercell) if it's heavier than the boxes immediately above and below it. How should they be stacked to create the maximum number of pressure points?
- a) 30 kg, 20 kg, 10 kg (descending)
 - b) 10 kg, 20 kg, 30 kg (ascending)
 - c) 10 kg, 30 kg, 20 kg
 - d) 20 kg, 30 kg, 10 kg
9. A historical society is looking for palindromic dates to celebrate. Which of these dates, written in DDMMYYYY format, is a palindrome?
- a) 12022021
 - b) 02022020
 - c) 21122112
 - d) Both b) and c) are possibilities, but only one is a valid date.

10. In a video game, two players take turns casting spells that cost 1 to 5 mana points.

The goal is to be the one who spends the 30th mana point. To guarantee a win, you must always leave your opponent with a total that is a multiple of:

- a) 5
- b) 7
- c) 6
- d) 4

Important links

- Answer of this worksheet - <https://www.teachoo.com/25637/5397/MCQ---Worksheet-2/category/Teachoo-Questions---MCQs/>
- Full Chapter with Explanation, Activity, Worksheets and more – <https://www.teachoo.com/subjects/cbse-maths/class-6/chapter-3-ganit-prakash/>
- Curiosity Class 6 (Science) - <https://www.teachoo.com/subjects/science/class-6/>
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