

## CHAPTER-3 | Number Play

### QUIZ PART-13

1. In the first question, a supercell is a number that is
- smaller than all its neighbours
  - greater than all its neighbours
  - equal to all its neighbours
  - an even number

**Explanation:** The chapter defines a supercell as a number greater than all its neighbouring numbers.

2. How many supercells are there in the grid at first?
- 1
  - 2
  - 3
  - 4

**Explanation:** The chapter clearly says there is only one supercell in the given grid.

3. After exchanging two digits of one number, how many supercells will there be?
- 1
  - 2
  - 3
  - 4

**Explanation:** The question says that after swapping two digits of one number, there will be 4 supercells.

4. Which topic is used in Question 2 of this part?
- Palindromes
  - Fractions
  - Kaprekar constant
  - Measurement

**Explanation:** Question 2 asks how many rounds your year of birth takes to reach the Kaprekar constant.

5. The numbers in Question 3 are between
- 25,000 and 65,000
  - 35,000 and 75,000
  - 45,000 and 85,000
  - 30,000 and 70,000

**Explanation:** The chapter states that the 5-digit numbers are between 35,000 and 75,000.

6. In Question 3, all the digits of the numbers must be
- even
  - prime
  - odd
  - different

**Explanation:** The chapter says all the digits of those numbers are odd.

7. Which is the smallest 5-digit number between 35,000 and 75,000 with all digits odd?
- 35,111
  - 35,555
  - 51,111
  - 33,555

**Explanation:** The first digit must be at least 3, the second digit at least 5, and the smallest odd digits after that are 1, 1, 1.

8. Which is the largest 5-digit number between 35,000 and 75,000 with all digits odd?
- 73,999
  - 75,999
  - 79,999
  - 71,999

**Explanation:** It must stay less than 75,000, so the largest possible number with all odd digits is 73,999.

9. Which number is closest to 50,000 among 5-digit numbers between 35,000 and 75,000 with all digits odd?
- 49,999
  - 51,111
  - 53,333
  - 48,888

**Explanation:** 49,999 is only 1 less than 50,000, so it is the closest.

10. In Question 4, what numbers are to be written so that their sum is 18,670?
- one 4-digit number and two 2-digit numbers
  - one 5-digit number and one 3-digit number
  - one 5-digit number and two 3-digit numbers
  - two 5-digit numbers and one 2-digit number

**Explanation:** The chapter asks for one 5-digit number and two 3-digit numbers whose sum is 18,670.