1. Who discovered the magic number pattern in this chapter?
   A. Aryabhata
   B. D.R. Kaprekar
   C. Ramanujan
   D. Euclid (B)

Explanation : The chapter says that D.R. Kaprekar discovered this number pattern.

2. D.R. Kaprekar was a
   A. doctor
   B. engineer
   C. mathematics teacher
   D. scientist (C)

Explanation: The chapter states that he was a mathematics teacher in a government school.

3. In which year did Kaprekar discover this 4-digit phenomenon?
   A. 1947
   B. 1948
   C. 1949
   D. 1950 (C)

Explanation: The chapter clearly mentions the year 1949.

4. Kaprekar discovered a magical phenomenon while playing with
   A. 2-digit numbers
   B. 3-digit numbers
   C. 4-digit numbers
   D. 5-digit numbers (C)

Explanation: This part of the chapter is about the 4-digit Kaprekar process.

5. In the example 8632, the number formed by arranging digits in ascending order is
   A. 8632 B. 2368
   C. 2683 D. 8236 (B)

Explanation : Arranging 8, 6, 3, 2 in ascending order gives 2368.

6. In the example 8632, the number formed by arranging digits in descending order is
   A. 2368
   B. 8326
   C. 8632
   D. 8263 (C)

Explanation : Arranging the digits from greatest to smallest gives 8632.

7. What is 8632 – 2368?
   A. 6174
   B. 6264
   C. 4176
   D. 2466 (B)

Explanation : Subtracting 2368 from 8632 gives 6264.

8. What is 6642 – 2466?
   A. 4176
   B. 6174
   C. 4266
   D. 2466 (A)

Explanation : The chapter example shows 6642 – 2466 = 4176.

9. What is 7641 – 1467?
   A. 4716
   B. 6174
   C. 6147
   D. 6264 (B)

Explanation : The subtraction gives 6174.

10. What is the Kaprekar constant for 4-digit numbers in this chapter?
    A. 495
    B. 9999
    C. 6174
    D. 1089 (C)

Explanation : The chapter says that 6174 is called the Kaprekar constant.