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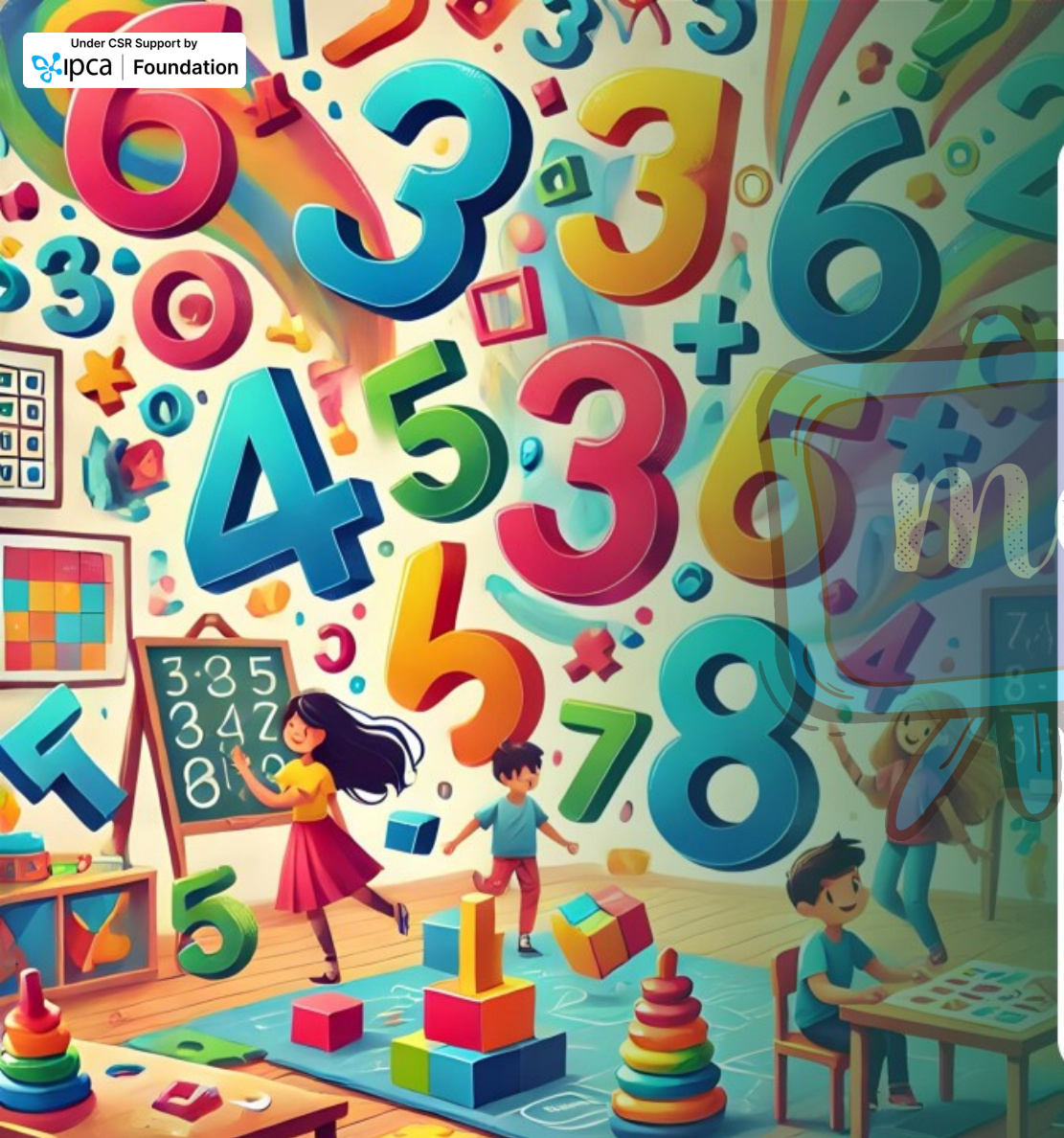

CLASS – 6

MATHEMATICS

Chapter – 3

Number Play

Part – 13

Figure it Out

Lavish Aggarwal

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1. There is only one supercell (number greater than all its neighbours) in this grid. If you exchange two digits of one of the numbers, there will be 4 supercells. Figure out which digits to swap.

16,200	39,344	29,765
23,609	62,871	45,306
19,381	50,319	38,408

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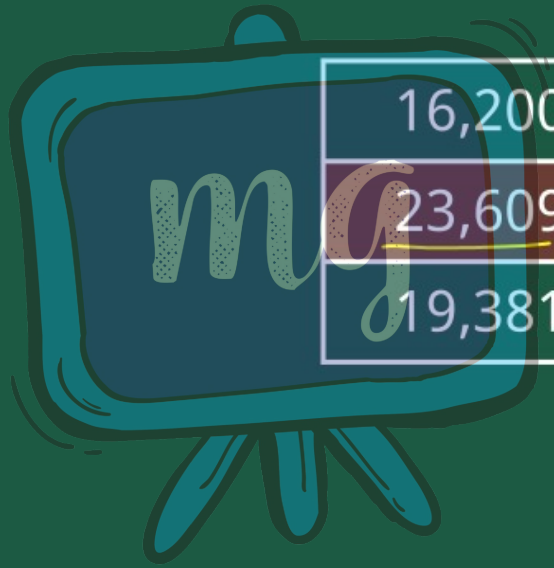
Answer :



16,200	39,344	29,765
23,609	12,876	45,306
19,381	50,319	38,408

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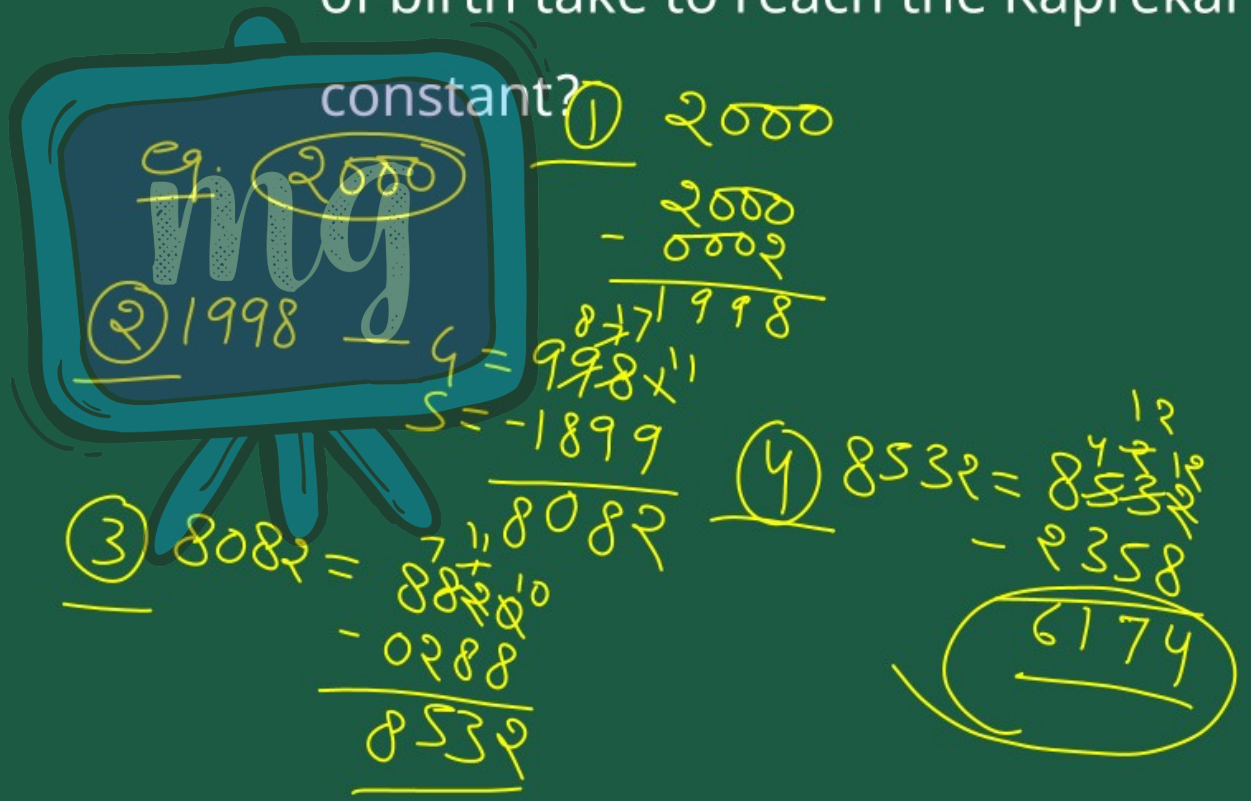
2. How many rounds does your year of birth take to reach the Kaprekar constant?



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Largest (diff) = 73951

" (Repiting) = 73999

Smallest (Diff) = 35179

Smallest (Rep) = 57111

Closest to 50,000:

(Diff) = 49751

(Rep) = 49999

3. We are the group of 5-digit numbers between 35,000 and 75,000 such that all of our digits are odd. Who is the largest number in our group? Who is the smallest number in our group? Who among us is the closest to 50,000?

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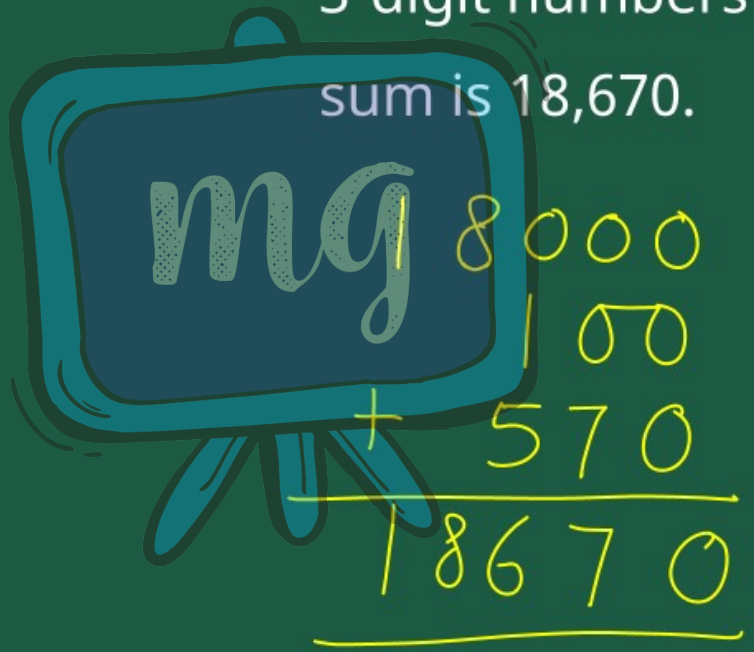
4. Write one 5-digit number and two 3-digit numbers such that their sum is 18,670.



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5. Recall the sequence of Powers of 2. Why is the Collatz conjecture correct for all the starting numbers in this sequence?

