

## Number Play Answer Key WORKSHEET-1

1. (c) 2. (d) 3. (b) 4. (a) 5. (a) 6. 74

7. 25 8. 69 9. 5 : 25, 8 : 18, 12 : 21, 10 : 01

10. 

54	92	39	67	85	99	45	17	23
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11. 19, 58, 29, 88, 44, 22, 11, 34, 17, 52, 26, 13, 40, 20, 10, 5, 16, 8, 4, 2, 1

12. 89998 13. 9500 14. 20 times

15. 

$\begin{array}{r} 9210 \\ -1029 \\ \hline 8181 \end{array}$	$\begin{array}{r} 8811 \\ -1188 \\ \hline 7623 \end{array}$	$\begin{array}{r} 7632 \\ -2367 \\ \hline 5265 \end{array}$	$\begin{array}{r} 6552 \\ -2556 \\ \hline 3996 \end{array}$	$\begin{array}{r} 9963 \\ -3699 \\ \hline 6264 \end{array}$
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$\begin{array}{r} 6642 \\ -2466 \\ \hline 4176 \end{array}$	$\begin{array}{r} 7641 \\ -1467 \\ \hline 6174 \end{array}$
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After 7 steps we get Kaprekar's constant

## WORKSHEET-2

1. (d) 2. (d) 3. (b) 4. (b) 5. (c)

6. 3 : 03, 3 : 13, 3 : 23, 3 : 33, 3 : 43, 3 : 53

7. 01-02-2010, 11-02-2011, 02-02-2020

8. 67 9. 333, 666, 999, 363, 393, 636, 696, 939, 969

10. 3524 is the number

$\begin{array}{r} 8730 \\ -3078 \\ \hline 5652 \end{array}$	$\begin{array}{r} 6552 \\ -2556 \\ \hline 3996 \end{array}$	$\begin{array}{r} 9963 \\ -3699 \\ \hline 6264 \end{array}$	$\begin{array}{r} 6642 \\ -2466 \\ \hline 4176 \end{array}$	$\begin{array}{r} 7641 \\ -1467 \\ \hline 6174 \end{array}$
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11. Greatest 5-digit number = 77510

Smallest 5-digit number = 10057

Sum = 77510 + 10057 = 87567

12. 76310, 10367, difference = 65943

13. 22, 11, 34, 17, 52, 26, 13, 40, 20, 10, 5, 16, 8, 4, 2, 1

14. ₹ 3000 15. 7700, 8500, 9800





## Case Study Based Questions

- (i) c      (ii) d      (iii) b      (iv) a
- (i) d      (ii) c      (iii) a      (iv) d

## Assertion & Reason

- D
- B
- A

