

## Number Play — Mental Ability Worksheet

**25 Questions | No Pen, No Paper — Solve Mentally**

**Name:** \_\_\_\_\_

**Class: 6**

**Section:** \_\_\_\_\_

**Date:** \_\_\_\_\_

*Instructions: This worksheet mixes Fill in the Blanks, MCQs, True/False, and Mental Calculation questions. Try to answer each one in your head within 30 seconds, without using a pen, paper, or calculator.*

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1. The smallest whole number is \_\_\_\_\_.
2. Which of these is a palindrome?  
(a) 123   (b) 212   (c) 321   (d) 213
3. 6174 is called the Kaprekar constant. (True / False)
4. What is the digit sum of 999?
5. The smallest 4-digit number is \_\_\_\_\_.
6. In the Collatz rule, an even number is:  
(a) tripled   (b) halved   (c) squared   (d) doubled
7. A supercell is always the largest number in the whole table. (True / False)
8. Reverse the number 47.
9. 10,000 has \_\_\_\_\_ digits.
10. The largest single digit possible in our number system is:  
(a) 8   (b) 9   (c) 10   (d) 0
11. 121 reversed is 121. (True / False)
12. Apply the Collatz odd-number rule ( $3 \times + 1$ ) to the number 3. What do you get?
13. The number that comes right after 9,999 is \_\_\_\_\_.
14. On a number line, numbers always increase towards the:  
(a) left   (b) right   (c) top   (d) bottom
15. Reversing and adding a 2-digit number repeatedly always eventually gives a palindrome. (True / False)
16. What is the digit sum of 305?
17. In Kaprekar's process, we always subtract the \_\_\_\_\_ number from the \_\_\_\_\_ number.
18. Which of these is NOT a palindrome?  
(a) 1331   (b) 4554   (c) 1234   (d) 7887
19. 100 is a palindrome. (True / False)
20. Round 68 to the nearest ten.
21. The smallest number in a group of numbers can \_\_\_\_\_ (can/cannot) be a supercell.
22.  $5 \times 3 + 1 = ?$

(a) 15   (b) 16   (c) 18   (d) 20

**23.** The Collatz conjecture says every sequence eventually reaches 0. (True / False)

**24.** What is the largest 2-digit number?

**25.** What is  $90,000 \div 900$ ?

**Answer Key**

1. 0
2. (b) 212
3. True
4. 27
5. 1,000
6. (b) halved
7. False
8. 74
9. 5
10. (b) 9
11. True
12. 10
13. 10,000
14. (b) right
15. True
16. 8
17. smallest, largest
18. (c) 1234
19. True
20. 70
21. cannot
22. (b) 16
23. False — it always eventually reaches 1.
24. 99
25. 100