Number Play

Standard difficulty · 20 questions · 40 marks · Time: 29 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. The sum of 2 odd numbers and 6 even numbers is always:
   (a) a multiple of 3 **(b)** odd
   (c) zero **(d)** even

2. Without multiplying, is 84 × 81 × 73 even or odd?
   (a) odd **(b)** neither
   (c) even **(d)** you have to multiply to tell

3. The sum of two odd numbers is always:
   (a) prime **(b)** odd
   (c) a multiple of 4 **(d)** even

4. A 3 × 3 magic square uses the numbers 8 to 16. Its magic sum is:
   (a) 12 **(b)** 108 **(c)** 36 **(d)** 39

5. In how many ways can a rhythm of 13 beats be made from short (1 beat) and long (2 beat) sounds?
   (a) 26 **(b)** 233 **(c)** 377 **(d)** 610

6. How many odd numbers are there from 26 to 63?
   (a) 37 **(b)** 19 **(c)** 20 **(d)** 18

7. A 2-digit number plus the number with its digits reversed is always a multiple of:
   (a) 2 **(b)** 9 **(c)** 11 **(d)** 10

8. A row of a magic square with magic sum 78 reads 30, 34, □. The missing number is:
   (a) 13 **(b)** 18 **(c)** 14 **(d)** 64

Section B — Short answer — 8 × 2 = 16 marks

9. Without adding, is 382 + 482 + 442 + 102 + 418 even or odd? Explain.

10. Complete the magic square (rows separated by /): 64 □ 54 / □ 49 □ / 44 69 34. What is the magic sum?

11. Each number is the sum of the two before it. Write the next three: 20, 36, 56, 92, …

12. Find two numbers next to each other (consecutive) that add up to 447.

13. 94 + 49 = 143. Show that the sum is a multiple of 11 and find the sum of the digits of 94.

14. How many ways are there to fill 9 beats with 1-beat and 2-beat sounds?

15. Is the sum of all the numbers from 41 to 120 even or odd? How many of them are odd?

16. A 3 × 3 magic square uses 16, 22, 28, … (nine numbers going up by 6). What is the centre number and the magic sum?

Section C — Word problems — 4 × 4 = 16 marks

17. Ananya plays a drum for 5 beats, using short sounds (1 beat) and long sounds (2 beats). In how many different ways can the 5 beats be filled? How many ways would there be for one beat more?

18. Raffle tickets are numbered 1 to 92. What is the total of all the odd-numbered tickets? Is that total even or odd?

19. Meera fills a 3 × 3 magic square with the numbers 15 to 23. What number must go in the centre, and what is the magic sum?

20. Rahul takes a 2-digit number, reverses its digits and subtracts the smaller from the larger. The answer is 18. What is the difference between the two digits? Give one number that works.

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Answer key

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Q	Answer	Working
1	**(d) even**	2 odd numbers give an even total; even numbers do not change it
2	**(c) even**	one even factor makes the product even
3	**(d) even**	odd + odd = even
4	**(c) 36**	total 108 ÷ 3 rows = 36
5	**(c) 377**	the Virahanka numbers 1, 2, 3, 5, 8, …: the 13th is 377
6	**(b) 19**	from 27 to 63
7	**(c) 11**	for example 47 + 74 = 121
8	**(c) 14**	78 minus the other two
9	**even**	0 odd numbers in the sum
10	**29, 39, 59; sum 147**	find a full line for the magic sum, then fill each gap
11	**148, 240, 388**	56 + 92 = 148
12	**223 and 224**	(447 − 1) ÷ 2 = 223
13	**143 = 11 × 13; digit sum 13**	10a + b + 10b + a = 11(a + b)
14	**55**	the 9th Virahanka number (1, 2, 3, 5, 8, …)
15	**even; 40 odd numbers**	the parity of a sum depends only on how many odd numbers there are
16	**centre 40; sum 120**	the centre is the middle number; sum = 3 × centre
17	**8; 13**	5 + 3 = 8
18	**2116; even**	46 odd numbers add up to 46 × 46
19	**19; 57**	total 171, ÷ 3 = 57; the centre is the middle number
20	**2; for example 20**	the answer is always 9 × (difference of digits): 18 ÷ 9 = 2

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