



INDIAN SCHOOL AL WADI AL KABIR
Class VIII, Mathematics
WORKSHEET (2026-27)
Number Play

Multiple Choice Questions

Q.1	The expression always gives an even number is:							
	A	$2n + 3p$	B	$4q - 2r$	C	$6p - 5q$	D	$3m + 5n$
Q.2	Which of the following is not a sum of consecutive natural numbers?							
	A	15	B	21	C	25	D	16
Q.3	A number is written as $8k+3$. What remainder will it leave when divided by 8?							
	A	0	B	2	C	3	D	8
Q.4	Which number will leave the same remainder as 1003 when divided by 9?							
	A	994	B	995	C	996	D	997
Q.5	Which of the following numbers is divisible by both 3 and 11?							
	A	205	B	154	C	198	D	451
Q.6	If 8Z5 is a multiple of 11, where Z is a digit, then the value of Z is:							
	A	1	B	2	C	3	D	9
Q.7	$45,060,700+103,004$ is not divisible by:							
	A	2	B	3	C	9	D	11
Q.8.	Which number will leave the same remainder as 935 when divided by 11?							
	A	924	B	9201	C	923	D	9220
Q.9	The digital root of 52699 is:							
	A	2	B	3	C	4	D	9
Q.10	If $5704x$ is a multiple of 9, where x is a digit then the value of x is:							
	A	1	B	2	C	3	D	4

	LONG ANSWER QUESTIONS:																																																
Q.11	Without computing them, find out which of the following arithmetic expressions are even or odd. a. $571 + 423$ b. $39 + 512$ c. $705 - 277$ d. $2 \times 127 \times 3$																																																
Q.12	Find the smallest number that leaves a remainder 2 when divided by 5 and a remainder 1 when divided by 3																																																
Q.13	Write two numbers that leave remainder 3 when divided by 5. Also write the corresponding algebraic expression.																																																
Q.14	Complete the table: <table><tr><th colspan="6">Divisibility</th></tr><tr><th></th><th>3465</th><th>6000</th><th>12480</th><th>12210</th><th>77715</th></tr><tr><th>4</th><td>No</td><td>Yes</td><td>Yes</td><td>No</td><td>No</td></tr><tr><th>6</th><td></td><td></td><td></td><td></td><td></td></tr><tr><th>8</th><td></td><td></td><td></td><td></td><td></td></tr><tr><th>9</th><td></td><td></td><td></td><td></td><td></td></tr><tr><th>11</th><td></td><td></td><td></td><td></td><td></td></tr><tr><th>12</th><td></td><td></td><td></td><td></td><td></td></tr></table>	Divisibility							3465	6000	12480	12210	77715	4	No	Yes	Yes	No	No	6						8						9						11						12					
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Q.15	What is the remainder when the following numbers are divided by 9? a. 724 b. 9307 c. 54268																																																
Q.16	Find the digital roots of the following numbers: a. 978410 b. 9999 c. 32015																																																

Q.17	For a classroom activity, four students were given four consecutive seat numbers. The sum of their seat numbers was 126. a) Let the first seat number be x. Write the other seat numbers. b) What were the four seat numbers?
Q.18	Check whether the following 4-digit numbers are divisible by 24. Give reasons for your answer. a. 1152 b. 1248 c. 1326
Q.19	During the annual Sports Day, students were divided into two groups for a relay event. The first group had $(6x+2)$ students, while the second group had $(6y+4)$ students, where (x) and (y) are whole numbers. 1. Represent the total number of students in both groups using an algebraic expression. 2. Prove algebraically that the total number of students is divisible by 6. 3. If $(x=4)$ and $(y=3)$, find the total number of students and verify your answer.
Q.20	Case study: Mathematics Fair – Number Cards During a Mathematics Fair, students were given number cards and asked to identify numbers that leave a particular remainder when divided by a given number. Riya noticed that all numbers leaving a remainder of 3 when divided by 7 can be represented using an algebraic expression.  a) Write the algebraic expression representing all numbers that leave a remainder of 3 when divided by 7. b) Riya chose two numbers, 24 and 31. Verify whether both numbers leave a remainder of 3 when divided by 7. c) Riya then wanted to create numbers that leave a remainder of 3 when divided by 5. Write the algebraic expression for such numbers. d) Write any two numbers satisfying the condition in part (c).

ANSWERS

1) B	2) D	3) C	4) A	5) C	6) B	7) D	8) A
9) C	10) B	11) a. Even b. Odd c. Even d. Even	12) 7	13) 8, 13 (5p + 3)	14) Table	15) a. 4 b. 1 c. 7	16) a. 2 b. 9 c. 2
17) a. x, x+1, x+2, x+3. b) 30, 31, 32, 33	18) a. yes b. Yes c. No		19) 1. $6x + 6y + 6$ 2. $6(x+y+1)$ 3. 48	20) a) $7n+3$ b) Remainder is 3 c) $5n+3$ d) Eg: 8, 13			