

4 	INDIAN SCHOOL AL WADI AL KABIR Class VIII, Mathematics WORKSHEET-MCQ (2026-27) Power Play
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Multiple Choice Questions

Q.1	The exponential form of $5 \times 5 \times 5 \times m \times m \times m$ is:							
	A	$5m^3$	B	$25m^3$	C	$(5m)^3$	D	$125m$
Q.2	The numerical value of $(-2)^3 \times (-7)^2$ is:							
	A	239	B	309	C	329	D	392
Q.3	The standard form of 0.00007908 is :							
	A	7.908×10^{-5}	B	79.08×10^{-5}	C	7.908×10^{-6}	D	7.908×10^5
Q.4	The numeral which represents $2 \times 10^3 + 5 \times 10^2 + 7 \times 10^1 + 9 \times 10^{-3}$ is:							
	A	257.9	B	2570.9	C	2570.009	D	2570.09
Q.5	Find the number which is greatest among the given numbers.							
	A	2^{10}	B	10^2	C	3^2	D	2^3
Q.6	Simplified form of $(5^{-2} \times 5^5)^3 \div 5^7$ is:							
	A	5^{-2}	B	5^2	C	5^5	D	5^3
Q.7	The initial thickness of a paper is 0.001 cm. If it is folded 18 times, what will be the thickness of the paper?							
	A	0.001×2^{18}	B	$(0.002)^{18}$	C	$(0.2)^{18}$	D	0.001×18
Q.8.	The number 2304 can be expressed in the product of its primes as:							
	A	$7^2 \times 3^2$	B	$8^2 \times 3^2$	C	$2^8 \times 3^2$	D	$9^2 \times 3^2$
Q.9	The numerical value of $\frac{(-5)^5 \times (-5)^7}{(-5)^8}$ is:							
	A	$(-5)^{20}$	B	$(-5)^4$	C	$(-5)^{-8}$	D	$(-5)^5$

Q.10	The usual form of 7.000459×10^3 is:							
	A	70.00459	B	700.459	C	7000.459	D	7459000
Q.11	Write the number 9^{12} as the power of a power.							
	A	$(9^4)^8$	B	$(3^4)^3$	C	$(9^6)^3$	D	$(3^3)^8$
Q.12	If $(16)^2 = 256$, then the value of $(0.16)^2$ is:							
	A	25600	B	0.00256	C	2.56	D	0.0256
Q.13	A quadrillion is :							
	A	10^{23}	B	10^{15}	C	10^{18}	D	10^{32}
Q.14	A hundred crores is :							
	A	a shank	B	a Padma	C	an arab	D	a neel
Q.15	<u>Case Study</u> A space research Centre collects images from satellites every day. On the first day, the Centre stores $2^{-8} \times 2^{18}$ MB of data. On the second day, it stores 3125 MB of data. On the third day, the amount of data stored is 2^5 times MB than the amount stored on the first day. The data is then copied to several backup servers, each storing an equal amount of data. During transmission, only $\frac{1}{2^4}$ of the third day's data is sent as a sample for testing. The total storage capacity of the Centre is 597,603,000,000 bytes. a) Write the data collected on the first day in the simplified form. b) Find the total collection of data on the third day. c) Express the total capacity of the centre in standard form. d) The amount of data stored on the second day was 3125. Express the data as product of primes.							



Answers	1	C	2	D	3	A	4	C
	5	A	6	B	7	A	8	C
	9	B	10	C	11	D	12	D
	13	B	14	C	15	a. 2^{10}		
						b. 2^{15}		
						c. 5.97603×10^{11}		
						d. 5^5		

