

International Maths Wizard Olympiad (IMWO)

CLASS-8 SAMPLE QUESTION PAPER

The Actual Question Paper Contains 50 Questions. The duration of the Test Paper is 60 Minutes.



CPS OLYMPIADS
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- The number $(10^n - 1)$ is divisible by 11 for _____.
(A) $n \in \mathbb{N}$
(B) Odd values of n
(C) Even values of n
(D) n is the multiple of 11
(E) None of these
- The number which is exactly divisible by 99 is _____.
(A) 3572404 (B) 135792
(C) 913464 (D) 114345
(E) None of these
- The least value must be given to x so that the number 91876×2 is divisible by 8 is _____.
(A) 1 (B) 2
(C) 3 (D) 4
(E) None of these
- If $\begin{array}{r} 1A \\ \times A \\ \hline B6 \end{array}$, when A and B are single digit numbers, such that $B - A = 3$, then the values of A and B respectively are _____.
(A) 4, 5 (B) 9, 6
(C) 5, 4 (D) 6, 9
(E) None of these
- 21436587 is divisible by _____.
(A) 2 (B) 5
(C) 7 (D) 9
(E) None of these
- When a certain number is multiplied by 13, the product consists entirely of fives. The smallest such number is _____.
(A) 41625 (B) 42515
(C) 42735 (D) 42135
(E) None of these
- The largest natural number by which the product of three consecutive even natural numbers is always divisible, is _____.
(A) 16 (B) 24
(C) 48 (D) 96
(E) None of these
- A 3-digit number 'cba' is divisible by 9 if _____.
(A) $a + 2b + c$ is divisible by 9
(B) $2a + b + c$ is divisible by 9
(C) $a + b + 2c$ is divisible by 9
(D) $a + b + c$ is divisible by 9
(E) None of these
- If in a number, difference between the sum of digits at its odd places and that of digits at the even places is given 0, then the number is divisible by _____.
(A) 7 (B) 9
(C) 5 (D) 11
(E) None of these
- A 5-digit number $xy235$ is divisible by 3 such that $x + y < 5$, where x and y are digits, then possible values of (x, y) are _____.
(A) (1, 1) or (4, 0)
(B) (1, 1) or (2, 0)
(C) (1, 1) or (0, 2)
(D) (2, 0) or (0, 2)
(E) None of these
- If a 3-digit number 'abc' is divisible by 11, then _____.
(A) $a + b + c$ is a multiple of 11
(B) $a + b - c$ is a multiple of 11
(C) $a - b + c$ is a multiple of 11
(D) $a - b - c$ is a multiple of 11
(E) None of these
- 'If a number is divisible by any number m , then it will also be divisible by each of the factor of m .' This statement is _____.
(A) True
(B) False
(C) Sometimes true and sometimes false
(D) All of these
(E) None of these
- If $31z4 + 51z3$ is divisible by 3, where z is digit less than 5, then the values of z are _____.
(A) 0, 1 (B) 0, 3
(C) 1, 3 (D) 1, 4
(E) None of these