

Mathematics

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(Chapter 3) (Playing with Numbers) (Practice Test - 3)

(Class VI)

Time Allowed: 1 Hour 15 Minutes

Maximum Marks: 25

General Instructions:

- This question paper contains four sections – A, B, C, D. Each part is compulsory.
- Section – A has 5 MCQ of one mark each.
- Section – B has 3 questions of two marks each.
- Section – C has 3 questions of three marks each.
- Section – D has 2 questions of five marks each, attempt any 1 out of 2.
- There is no negative marking.

Section – A

- The total number of even prime numbers is
(A) 0 (B) 1 (C) 2 (D) unlimited
- Which of the following numbers is a perfect number?
(A) 16 (B) 8 (C) 24 (D) 28
- Which of the following numbers is divisible by 4?
(A) 8675231 (B) 9843212 (C) 1234567 (D) 543123
- What is the greatest prime number between 1 and 10?
(A) 3 (B) 5 (C) 7 (D) 9
- A number is divisible by both 7 and 16. By which other number will that number be always divisible?
(A) 1 (B) 2 (C) 4 (D) 8

Section – B

- The numbers 13 and 31 are prime numbers. Both these numbers have same digits 1 and 3. Find such pairs of prime numbers up to 100.
- Find the common factors of 56 and 120.
- Write the smallest 5-digit number and express it in the form of its prime factors.

Section – C

- Find first three common multiples of:
6 and 8
- A number is divisible by 12. By what other numbers will that number be divisible?
- Find the HCF of the following numbers: 70, 105, and 175.

Section – D

- Three boys step off together from the same spot. Their steps measure 63 cm, 70 cm and 77 cm respectively. What is the minimum distance each should cover so that all can cover the distance in complete steps?
- What is the smallest number that, when divided by 35, 56 and 91 leaves remainder of 7 in each case?

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Answers

Section - A

- 2
- 28
- 9843212
- 9
- 1

Section - B

- 17 and 71, 37 and 73, 79 and 97
- Common factors = 1, 2, 4, 8
- $10000 = 2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 5 \times 5$

Section - C

- common multiples are 24, 48, 72
- 1, 2, 3, 4, 6
- 35

Section - D

- 6930 cm
- 3647

