



Laying the foundation of lifelong success

CHAPTER 1

Real Number

(Previous Years' Questions)

Case – Study Based

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1. Teaching Mathematics through activities is a powerful approach that enhances students' understanding and engagement. Keeping this in mind, Ms. Mukta planned a prime number game for class 5 students. She announces the number 2 in her class and asked the first student to multiply it by a prime number and then pass it to second student. Second student also multiplied it by a prime number and passed it to third student. In this way by multiplying to a prime number, the last student got 173250.

Now, Mukta asked some questions as given below to the students:

- (i) What is the least prime number used by students? 1
- (ii) (a) How many students are in the class ? 2

OR

- (b) What is the highest prime number used by students? 2
- (iii) Which prime number has been used maximum times? 1

(2024)

2. February 14 is celebrated as International Book Giving Day and many countries in the world celebrate this day. Some people in India also started celebrating this

day and donated the following number of books of various subjects to a public library :

History = 96, Science = 240, Mathematics = 336.

These books have to be arranged in minimum number of stacks such that each stack contains books of only one subject and the number of books on each stack is the same.

Based on the above information, answer the following questions :

- (i) How many books are arranged in each stack? 1
- (ii) How many stacks are used to arrange all the Mathematics books? 1
- (iii) (a) Determine the total number of stacks that will be used for arranging all the books. 2

OR

- (iii) (b) If the thickness of each book of History, Science and Mathematics is 1.8 cm, 2.2 cm and 2.5 cm respectively, then find the height of each stack of History, Science and Mathematics books. 2

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