CLAT 2020 Test Series Plan

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DI Bar Chart Questions for CLAT Exam.

Maths Questions Quiz 3

Directions: Study the following bar chart carefully and answer the questions given beside.

To identify and treat people with COVID-19, numbers of tests were conducted on people. The bar chart below shows the data for four countries.

The bar chart gives information about:

Numbers of tests in thousand for each one lakh population in a day,

Number of people as percentage, who were found positive to test, and

The number of people who were found positive and needed Ventilators, as they were critically affected due to the virus.

Data regarding number of Tests, Positive outcomes and Critical Patients who need ventilators in four countries

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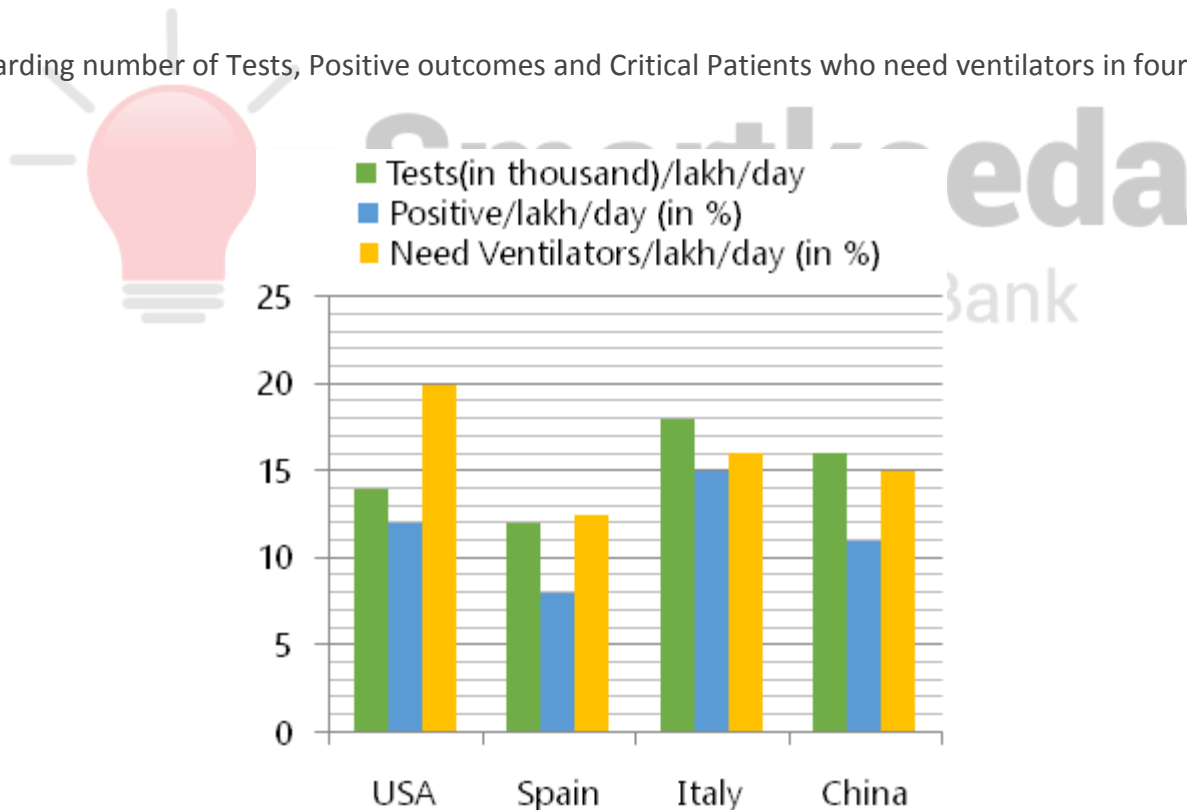
1. **Find average number of tests per day per lakh in the four countries.**

A. 12000   B. 10000   C. 14000   D. 15000   E. 16000

2. **Find the numbers of tests USA and Italy together conducted if 3012 lakh and 720 lakh people respectively were living in these two countries.**

A. 452.18 lakh   B. 151.48 lakh   C. 231.28 lakh   D. 151.48 lakh   E. 551.28 lakh

3. **China tested 80000 people per day for 20 days. How many people were found positive in China in these 20 days?**

A. 162500   B. 176000   C. 168500   D. 212500   E. 222000

4. **In Spain, 5760 were found positive on a particular day. Find how many tests were conducted that day.**

A. 54000   B. 48000   C. 72000   D. 36000   E. 84000

5. **Find average number of ventilators for all the four countries together if 1 lakh people are tested in each of the four countries.**

A. 288   B. 336   C. 120   D. 432   E. 264

Correct Answers:

1	2	3	4	5
D	E	B	C	A

Common Explanation:

We evaluate number of patients who were found positive and number of patients who needed ventilators.

	Number of Tests/lakh/day	Positive cases	Number of patients for Ventilators
USA	14000	12% of 14000 = 1680	20% of 1680 = 336
Spain	12000	8% of 12000 = 960	12.5% of 960 = 120
Italy	18000	15% of 18000 = 2700	16% of 2700 = 432
China	16000	11% of 16000 = 1760	15% of 1760 = 264

Answers :

1.   From common explanation, we have

total number of tests per day per lakh in the four countries = 14000 + 12000 + 18000 + 16000 = 60,000

Average = $\dfrac{60000}{4}$ = 15000

Hence, option D is correct.

2.   From common explanation, we have that USA tests 14,000 for each 1 lakh, so for 3012 lakh, number of tests = (3012 lakh) × (14thousand/lakh) = 42,168 thousand.

Similarly, for Italy = (720lakh) × (18 thousand/lakh) = 12,960 thousand

Total = 55128 thousand = 551.28 lakh

Hence, option E is correct.

3.   From common explanation, we have

80,000 people are tested each day

Thus in 20 days, number of tests = 20 × 80 thousand = 1600 thousand

Number of people who have been found positive = 11% of 1600 thousand = 176 thousand = 176,000

Hence, option B is correct.

4.   From common explanation, we know that in Spain, out of each 12,000 tests, 960 were found positive.

Number of tests when 5760 were found positive = $\dfrac{5760}{960}$ × 12000 = 72,000

Hence, option C is correct.

5.   From common explanation, we have

Average number = $\dfrac{336 + 120 + 432 + 264}{4}$ = 288

Hence, option A is correct.