

# Class-10

## Homework (22/7/20)

### MATHS

16. The sum of the squares of two consecutive multiples of 7 is 1225. Find the multiples.

17. The sum of a natural number and its reciprocal is  $\frac{65}{8}$ . Find the number.

18. Divide 57 into two parts whose product is 680.

19. Divide 27 into two parts such that the sum of their reciprocals is  $\frac{3}{20}$ .

20. Divide 16 into two parts such that twice the square of the larger part exceeds the square of the smaller part by 164.

21. Find two natural numbers, the sum of whose squares is 25 times their sum and also equal to 50 times their difference.

22. The difference of the squares of two natural numbers is 45. The square of the smaller number is four times the larger number. Find the numbers. [CBSE 2007]

23. Three consecutive positive integers are such that the sum of the square of the first and the product of the other two is 46. Find the integers. [CBSE 2010]

24. A two-digit number is 4 times the sum of its digits and twice the product of its digits. Find the number.

25. A two-digit number is such that the product of its digits is 14. If 45 is added to the number, the digits interchange their places. Find the number. [CBSE 2012]

26. The denominator of a fraction is 3 more than its numerator. The sum of the fraction and its reciprocal is  $2\frac{9}{10}$ . Find the fraction.

27. The numerator of a fraction is 3 less than its denominator. If 1 is added to the denominator, the fraction is decreased by  $\frac{1}{15}$ . Find the fraction. [CBSE 2012]

28. The sum of a number and its reciprocal is  $2\frac{1}{30}$ . Find the number.

**SOME GENERAL PROBLEMS**

29. A teacher on attempting to arrange the students for mass drill in the form of a solid square found that 24 students were left. When he increased the size of the square by one student, he found that he was short of 25 students. Find the number of students.

30. 300 apples are distributed equally among a certain number of students. Had there been 10 more students, each would have received one apple less. Find the number of students.

### SCIENCE

#### Biology

1.. Describe the parts of our tooth with the help of a labelled diagram .what is meant by dental caries ,how are they caused.

2.. Name the raw material required for photosynthesis how do plants obtain these raw materials. What are the various condition necessary for photosynthesis. Name the various factor which affect the rate of photosynthesis in plant.

3.. When a person needs sugary food then organism A present in his mouth at on Sugar to produce a substance B the substance B first dissolve the calcium Salt from the top part of C of the tooth and then from its middle part the D forming hole E. this hole ultimately reach the part F in the lower part of tooth which contains nerves and blood vessels the substance B irritate nerve endings inside the tooth causing toothache.

a ..What are organism A and substance B.

b.. What are part C and D of tooth.

c.. By what name are the hole in the tooth known.

d.. Name the part F of the tooth.

e.. What will happen if organism A reach part F of tooth.

## **SOCIAL SCIENCE**

**Pdf attached for it.**

## **ENGLISH**

**Answer the following questions in 30 to 40 words:-**

**Q.1. Why was Lencho angry when he received the letter?**

**Q.2. How did the postmaster help lencho?**

**Q.3. Where was Lencho's House situated? Why did he sit seeing the sky?**

**Q.4. What had lencho predicted?**

**Q.5. How did lencho's hope change to despair?**