MATHS

BOOKS - NAVNEET PUBLICATION - MAHARASHTRA BOARD

HCF-LCM

Question Bank

1. Write all the factors of the numbers given and list their common factors :

12, 16

2. Write all the factors of the numbers given and list their common factors :

21, 24

3. Write all the factors of the numbers given and list their common factors :

25, 30

4. Write all the factors of the numbers given and list their common factors :

24, 25

5. Write all the factors of the numbers given and list their common factors :

56, 72 .

6. Find the HCF of the numbers :

40, 30

7. Find the HCF of the numbers :

16 and 48

8. Find the HCF of the numbers :

39, 25

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9. Find the HCF of the numbers : 49, 56 .

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10. Find the HCF of the numbers : 120, 144 .

11. Find the HCF of the numbers :

81, 99

12. Find the HCF of the numbers :

24, 36

13. Find the HCF of the numbers :

25, 75

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14. Find the HCF of the numbers :

48, 54

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15. Find the HCF of the numbers :

150, 225

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16. If large square beds of equal size are to be made on a plot of land 18 metres long and 15 metres wide in order to plant vegetables, what is the maximum possible length of each bed ?

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17. Two ropes, one 8 metres long and the other 12 metres long are to be cut into pieces of the same length. What will the maximum possible length of each piece be?

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18. The number of students of Std. 6 and Std. 7 who went to visit the Tadoba Tiger Project at Chandrapur was 140 and 196 respectively. The students of each class are to be divided Into groups of the same number of student. Each

group can have a paid guide. What is the maximum number of students there can be in each group ? Why do you think each group should have the maximum possible number of students ?

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19. At the Rice Research Centre at Tumsar, there are 2610 kg of rice seeds of the Basmati variety and 1980 kg of the Indrayanl variety. If a maximum possible weight of seeds has to be

filled to make bags of equal weight, what would the weight of each bag be ? How many bags of each variety will there be ?

20. Find out the LCM of the numbers :

9, 15

21. Find out the LCM of the numbers :

2, 3, 5

22. Find out the LCM of the numbers :

12, 28

23. Find out the LCM of the numbers :

15, 20

24. Find out the LCM of the numbers :

8, 11.

25. Solve the following problems.

On the playground, if the children are made to stand for drill either 20 to a row or 25 to a row, all rows are complete and no child is left out. What must be the least number of children in that school.

26. Solve the following problems.

Veena has some beads. She wants to make

necklaces with an equal number of beads in each. If she makes necklaces of 16, 24 or 40 beads, there is no bead left over. What is the least number of beads she must have ?

27. Solve the following problems.

An equal number of laddoos have been placed in 3 different boxes. The laddoos in the first box were distributed among 20 children equally, the laddoos in the second box among

24 children and those in the third box among 12 children. Not a single Laddoo was left over. Then, what was the minimum number of laddoos in the three boxes altogether?

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28. Solve the following problems.

We observed the traffic lights at three different squares on the same big road. They turn green every 60 seconds, 120 seconds and 24 seconds. When the signals are switched on

at 8 o'clock in the morning, all lights were green. How long after that will all three signals turn green simultaneously again?

29. Solve the following problems.

Given the fractions $\dfrac{13}{45}$ and $\dfrac{22}{75}$ and Write their equivalent fractions with the same denominators and add them.

30. The first three multiples of 8 are ....

31. Find the HCF of 6 and 12.

32. LCM of 6 and 12 is ....

33. Prime factors of 24 are ....

34. Write two common multiples of 9 and 12.