



UNIQUE STUDY POINT  
CLASS X

WORKSHEET: WORD PROBLAMS BASED ON HCF AND LCM

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**Problem 1 :** A merchant has 120 liters and 180 liters of two kinds of oil. He wants to sell the oil by filling- the two kinds in tins of equal volumes. Find the greatest volume of such a tin.

**Problem 2 :** Find the least number of square tiles by which the floor of a room of dimensions 16.58 m and 8.32 m can be covered completely.

**Problem 3 :** A wine seller had three types of wine. 403 liters of 1st kind, 434 liters of 2nd kind and 465 liters of 3rd kind. Find the least possible number of casks of equal size in which different types of wine can be filled without mixing.

**Problem 4 :** Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together ? (excluding the one at start)

**Problem 5 :** The traffic lights at three different road crossings change after every 48 sec, 72 sec and 108 sec respectively. If they all change simultaneously at 8:20:00 hours, when will they again change simultaneously ?

**Problem 6 :** Find the least number of soldiers in a regiment such that they stand in rows of 15, 20, 25 and form a perfect square.