## **Highest Common Factor**

1.	Determine the H.C.F. of numbers in each of the following by prime factorization method.
	<b>a.</b> 320, 480 <b>b.</b> 289, 391 <b>c.</b> 625, 3125, 15625
2.	Determine the H.C.F. of numbers in each of the following by continued division method.
	a. 1045, 1520 b. 252, 576 c. 2241, 8217, 747
3.	Find the H.C.F of the following.
	<b>a.</b> 216, 1176 <b>b.</b> 2241, 8217, 747
4.	What is the H.C.F. of any two consecutive numbers?
5.	What is the H.C.F. of any two prime numbers?
6.	Find the greatest number which divides 203 and 321 leaving remainder as 5 and 6 respectively.

7. Determine the length of the longest tape which can be used to measure exactly the lengths 2m 76cm, 12m 42cm and 1m 38cm.

8. A room is 7m 35cm wide and 11m 55cm long. The floor of the room is to be covered with square tiles. Find the side of the largest tile that can be used.

9. Three different containers contain 391 litres, 425 litres and 527 litres of milk respectively. Find the maximum capacity of a container which can measure the milk of all the containers in exact number of times.

10. In a seminar, the number of participants in Hindi, English and Mathematics is 106, 159 and 265 respectively. Find the minimum number of rooms required, if in each room the same number of participants is to be seated and all of them being of the same subject.