



1. Find the l.c.m. of :-

- (a) 4 and 5 (b) 5 and 6 (c) 2 and 7 (d) 10 and 12
 (e) 2, 4 and 6 (f) 4, 5 and 6 (g) 3, 5 and 7 (h) 6, 7 and 8.

2. In a musical score, three clarinets begin by playing an F as the first note. From this note:

- The first clarinet plays the F every 4 beats
- The second clarinet plays the F every 5 beats
- The third clarinet plays the F every 10 beats

- a) After how many beats will all three clarinets play the same F note at the same time?
 b) If the music lasts for 300 beats, how many times will all three clarinets play the F simultaneously (at the same time?)

3. Find the h.c.f. of :-

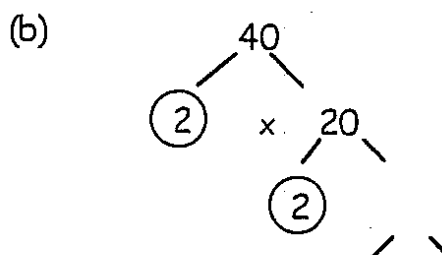
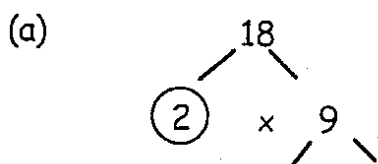
- (a) 8 and 10 (b) 16 and 24 (c) 20 and 28 (d) 30 and 45
 (e) 16 and 80 (f) 21 and 36 (g) 35 and 84 (h) 23 and 32

4. Ted, Ned and Zed are salesmen. They all call into the office on the first day of each month for a meeting. After this Ted comes in every second day, Ned comes in every third day and Zed comes in every fourth day.

How many days in August will all three be together in the office?

5. List all the prime numbers between 20 and 50.

6. **COPY** and complete each of the following prime factorisations :-



7. Find the prime factorisations of :-

- (a) 12 (b) 30 (c) 32
 (d) 75 (e) 100 (f) 512
 (g) 47 (h) 105 (i) 51.