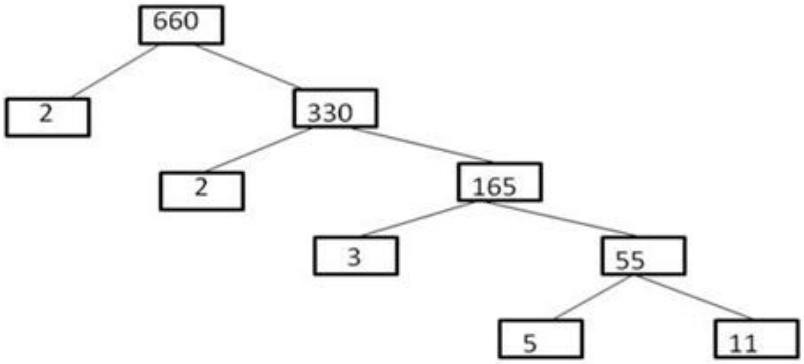
Exercise 1A

Questions 9:
By going upward
5 x 11= 55
55 x 3 = 165
165 x 2 = 330
330 x 2 = 660



Questions 10:
Subtracting 6 from each number:
378 - 6 = 372, 510 - 6 = 504
Let us now find the HCF of 372 and 504 through prime factorization:
372 = 2 x 2 x 3 x 31

2	372
2	186
3	93
	31

2	504
2	252
2	126
7	63
3	9
	3

504 = 2 x 2 x 2 x 3 x 3 x 7

$$= 2^2 \times 3 \times 31$$

The required number is 12.

$$= 2^3 \times 3^2 \times 7$$

$$\text{H.C.F of } 372 \text{ and } 504 = 2^2 \times 3 = 12$$

Questions 11:
Subtracting 5 and 7 from 320 and 457 respectively:
320 - 5 = 315,
457 - 7 = 450
Let us now find the HCF of 315 and 405 through prime factorization:

3	315
3	105
5	35
	7

2	450
3	225
3	75
5	25
	5

$$315 = 3 \times 3 \times 5 \times 7$$

$$= 3^2 \times 5 \times 7$$

$$450 = 2 \times 3 \times 3 \times 5 \times 5$$

$$= 2 \times 3^2 \times 5^2$$

The required number is 45.

********** END **********