

Exercise 2F

# Q17

## Answer:

(c) 360

L.C.M. = 
$$2^3 \times 3^2 \times 5$$
  
= 360

# Q18

## Answer:

2 12,15,20,27  
2 6,15,10,27  
3 3,15, 5, 27  
3 1, 5, 5, 9  
3 1, 5, 5, 3  
5 1, 5, 5, 1  
1, 1, 1, 1  
L.C.M. = 
$$2^2 \times 3^3 \times 5 = 540$$

Q19

## Answer:

## (d) none of these

The smallest number that is exactly divisible by 11, 28, 36 and 45 will be their L.C.M. So, the required number will be the L.C.M. plus 3.

L.C.M. of the three numbers = 
$$2^2 \times 3^2 \times 5 \times 7 \times 11$$
  
= 13860

∴ Required number = 13860 + 3 = 13863

### Q20

### Answer:

(c) 1

H.C.F. of two co-primes is 1.

This is because two co-prime numbers do not have any common factor. For example, 15 and 16 are co-primes.

Their H.C.F. is 1.

### Q21

#### Answer:

(c) ab

If a and b are co-primes then their LCM will be ab. For example, 4 and 9 are co-primes.

L.C.M. of 4 and 9 is 4×9.