

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.