

9-21
September
Tuesday

Common Multiples

Exercise 10 (E)

1. Find the LCM of the given numbers by listing method. (up to first three multiples).

(a) ~~2 and 6~~ 2 and 6

Multiples of 2 = 2, 4, 6, ~~8~~,

Multiples of ~~2~~ 6 = 6, 12, 18

So, LCM of 2 and 6 is 6.

(b) 4 and 12

Multiples of 4 = 4, 8, 12

Multiples of 12 = 12, 24, 36

So, LCM of 4 and 12 is 12.

(c) 5 and 3

Multiples of 5 = 5, 10, 15, 20, 25, 30

Multiples of 3 = 3, 6, 9, 12, 15

So, LCM of 5 and 3 is 15.

(d) 3 and 9

Multiples of 3 = 3, 6, 9
Multiples of 9 = 9, 18, 27

Here, 9 is the first common multiple of 3 and 9. So, LCM of 3 and 9 is 9.

(e) 10 and 20,

Multiples of 10 = 10, 20, 30
Multiples of 20 = 20, 40, 60

M. so, LCM of 10 and 20 is 20.

(f) ~~6, 4~~ 6 and 4

Multiples of 6 = 6, 12, 18, ~~24~~
Multiples of 4 = 4, 8, 12

So, LCM of 6 and 4 is 12.

(g) 4 and 18

Multiples of 4 = 4, 8, 12, 16, 20, 24, 28,

32, 36

Multiples of 18 = 18, 36, 54

Here, So, LCM of 4 and 18 is 36.

(h) 4 and 6

Multiples of 4 = 4, 8, 12, 16

Multiples of 6 = 6, 12, 18

So, LCM of 4 and 6 is 12.