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Common Multiple

Exercise 10(E)

① Find the LCM of the given numbers by listing method.

① 2 and 6

Multiples of 2 = 2, 4, ⑥

Multiples of 6 = ⑥, 12, 18

So LCM of 2 and 6 is 6

② 4 and 12

Multiples of 4 = 4, 8, ⑫

Multiples of 12 = ⑫, 24, 36

So, LCM of 4 and 12 is 12.

③ 5 and 3

Multiples of 5 = 5, 10, 15

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

So, LCM of 5 and 3 is 15.

④ 3 and 9

Multiples of 3 = 3, 6, 9

Multiples of 9 = 9, 18, 27

So, LCM of 3 and 9 is 9.

⑤ 10 and 20

Multiples of 10 = 10, 20, 30

Multiples of 20 = 20, 40, 60

So, LCM of 10 and 20 is 20.

f) 6 and 4

Multiples of 6 = 6, (12), 18

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

So, LCM of 4 and 18 is 36.

h) 4 and 6

Multiples of 4 = 4, 8, (12)

Multiples of 6 = 6, (12), 18

So, LCM of 4 and 6 is 12.

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(i) 16 and 8

Multiples of 16 = 16, 32, 48

Multiples of 8 = 8, 16, 24

So, LCM of 16 and 8 is 16.

(ii) 9 and 12

Multiples of 9 = 9, 18, 27, 36

Multiples of 12 = 12, 24, 36

So, LCM of 9 and 12 is 36.