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Worksheet-1 Full Solution Method (20/05/2020)

Class Four

Subject Mathematics

Chapter 7

Topic Multiples

Answer (1):

Multiples of 18: 18, 36, 54, 72, 90, 108,.....

[In this way solve others and find minimum 5-10 multiples of all numbers.]

Answer (2):

vi) 5, 15

Multiples of 5: 5, 10, 15, 20, 25, 30, 45....

Multiples of 15: 15, 30, 45, 60, 75, 90,....

Here, Common Multiples (CM) of 5 and 15: 15, 30, 45,....

So the Least Common Multiple (LCM) is 15.

ix) 4, 8, 12

Multiples of 4: 4, 8, 12, 16, 20, 24, 28, 32,

Multiples of 8: 8, 16, 24, 32, 40, 48, 56, 64,....

Multiples of 12: 12, 24, 36, 48, 60, 72, 84,...

Here, Common Multiples of 4, 8 and 12: 12, 24,....

So the LCM is 12.

[In this way solve others]

Answer 3(i):

We can find out the time by finding LCM of 9 and 12.

Multiples of 9:

9, 18, 27, 36, 45,....

Multiples of 12:

12, 24, 36, 48, 60,....

Therefore the LCM of 9 and 12 is 36.

So, after 36 minutes the alarms will ring together again.

Therefore the next time alarms will ring together at $(3:20 + 0:36)$ pm

= 3: 56 pm (Answer)

Answer 3(ii):

Length of the side of the shortest square can be found by finding LCM of 14 and 10.

Multiples of 14:

14, 28, 42, 56, 70, 84, 98, 112,....

Multiples of 10:

10, 20, 30, 40, 50, 60, 70, 80,.....

Therefore the LCM is 70.

So the length of the side of the shortest square is 70 cm. (Answer)