

01/09/21 Exercise 10E) 2 & 4

3

~~a. 2~~ 1. Find the LCM of the given numbers by listing method.

(upto first three multiples)

a. 2 and 6

2 - 2, ~~4~~, 6

Here, 6 is first common multiple of 2 and 6.

6 - 6, 12, 18

b. 4, 12

4 - 4, 8, 12

Here, 12 is a first common multiple of 4 and 12.

12 - 12, 24, 36

So LCM of 4 and 12 is  
12

e. 5, 3

5 - 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ...

3 - 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ...

Common multiples of 5 and 3 =

15, 30. So LCM of 5 and 3 is

15

d. 3, 9

3 - 3, 6, 9

Common multiple of 3 and 9 is 9

9 - 9, 18, 27

So LCM of 3 and 9 is 9

e. 10, 20

10 - 10, 20, 30

20 - 20, 40, 60

Common multiple  
of 10 and 20 is  
20  
So, LCM of 10 and  
20 is 20

f. 6 and 4

6 - 6, 12, 18, 24, 30, 36, 42, 48, 54, 60

4 - 4, 8, 12, 16, 20, 24, 28, 32, 36, 40

Common multiple of 6 and 4 is 12, 24,  
and 36. So LCM of  
So LCM of 4 and 6 is 12

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Have complete Exercise to E Q7.

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g. 4, 18

4 - 4, 8, 12, 16, 20, 24, 28, 32, (36)

40

8 - 18, (36), 54

Common multiple  
of 4 and 8 is  
36

So, LCM of 4 and 8 is = 36

h. 4, 6

4 - 4, 8, (12)

Common multiple  
of 6 and 4 is = 12

6 - 6, (12), 18

So LCM of 6 and  
4 is = 12

i. 16, 8 - (16), (32), (48), (64), (80), 96, 112

128, 144, 160, ...

8 - 8, (16), 24, (32), 40, (48), 56, (64)

72, (80), ...



Common multiples of 16 and

8 = 16, 32, 48, 64, 80, ...

So LCM of 16 and 8 is 16

9, 12 - 9, 18, 27, 36, 45, 54, 63, 72, 81, ...

12 - 12, 24, 36, 48, 60, 72, 84, 96, 108, 120, ...

Common multiple of 9 and

12 is 36. So LCM of 9 and 12 is 36