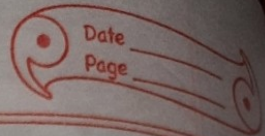


CW

Exercise 10 (E)



3.) a) 6, 36

$$2 \mid 6, 36$$

$$3 \mid 3, 18$$

$$3 \mid 1, 6$$

$$3 \mid 1, 2$$

$$6, 36 = 2 \times 3 \times 3 \times 2 = 36$$

So Lcm of 6 and 36 is = 36

b.) 25, 10

$$5 \mid 25, 10$$

$$5, 2$$

So Lcm of 25 and 10 is 50

$$5 \times 5 \times 2 = 50$$

c.) 45, 27

$$3 \mid 45, 27$$

$$3 \mid 15, 9$$

$$5, 3$$

So, Lcm of 45 and 27 is

$$3 \times 3 \times 3 \times 5 = 135$$

d.) 42, 49

$$\begin{array}{r|l} 7 & 42, 49 \\ \hline 2 & 6, 7 \\ \hline & 3, 7 \end{array}$$

So, Lcm of 42 and 49
 $7 \times 2 \times 3 \times 7 = 294$

e.) 32, 64

$$\begin{array}{r|l} 2 & 32, 64 \\ \hline 2 & 16, 32 \\ \hline 2 & 8, 16 \\ \hline 2 & 4, 8 \\ \hline 2 & 2, 4 \\ \hline & 1, 2 \end{array}$$

So, Lcm of 32 and 64 is
 $2 \times 2 \times 2 \times 2 \times 2 \times 2 = 64$

f.) 18, 27

$$\begin{array}{r|l} 3 & 18, 27 \\ \hline 3 & 6, 9 \\ \hline & 2, 3 \end{array}$$

So Lcm of 18 and 27 is
 $3 \times 3 \times 3 \times 2 = 54$

$$g) \quad 36, 42$$

$$\begin{array}{r} 2 \overline{) 36, 42} \\ 3 \overline{) 18, 21} \\ 3 \overline{) 6, 7} \\ \quad 2, 7 \end{array}$$

So Lcm of 36 and 42 is
 $2 \times 3 \times 3 \times 2 \times 7 = 252$

$$h) \quad 15, 64$$

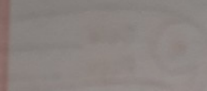
$$\begin{array}{r} 1 \overline{) 15, 64} \\ 15, 64 \end{array}$$

so, $Lcm = 15 \times 64 = 960$

$$i) \quad 28, 32$$

$$\begin{array}{r} 4 \overline{) 28, 32} \\ \quad 7, 8 \end{array}$$

So, $Lcm = 4 \times 7 \times 8 = 224$

6)  j.) 27, 81

$$\begin{array}{r} 9 \overline{) 27, 81} \\ \underline{8, 1} \\ 0 \end{array}$$

$$\text{So LCM} = 9 \times 8 \times 9 = 648$$