EXERCISE 10(E)

Q2.

(a) 16, 48

3	16, 48
2	8, 24
2	4, 12
2	2, 6
3	1, 3
	1, 1

L.c.m ⇒ 2X2=4X2=8X2=16X3= 48 ~~4X4=16X1=~~

(b) 8, 12, 16

2	8, 12, 16
2	4, 6, 8
2	2, 3, 4
3	1, 3, 2
2	1, 1, 2
	1, 1, 1

L.c.m ⇒ ~~2X2=4X2=8X3=24X2=48~~

2X2=4X2=8X2=16X3= 48

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(c) 20, 25

5	20, 25
5	4, 5
2	4 1
2	2 1
	1 1

∴ L.C.M ⇒ ~~5 x 5 x 2~~ 5 x 5 = 25 x 2 = 75 x 2 =

150

(d) 40, 50

2	40, 50
5	20, 25
4	4, 5
5	1 5
	1 1

L.C.M ⇒ 2 x 5 ÷ 10 x 4 = 40 x 5 = 200

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(d) 90,50

2	90,50
5	45,25
5	9,5
	1,1

⇒

L.C.M ⇒ 2×2=4, 4×2=8, 8×5=90

(e) 56,64

2	56,64
2	28,32
2	14,16
2	7,8
2	7,4
2	7,2
2	7,1
	1,1

L.C.M ⇒ 2×2=4×2=8×2=16×2=32×2=64×2=128

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(f) 96, 144

3	96, 144
2	32, 48
2	16, 24
2	8, 12
2	4, 6
	2, 3

L.C.M → 3 × 2 × 2 × 2 × 2 × 3 × 2 × 3 = 288

(g) 36, 42

3	36, 42
	12, 14

2	36, 42
2	18, 21
3	9, 21
3	3, 7
7	1, 7
	1, 1

L.C.M → 2 × 2 × 3 × 3 × 7 × 1 × 1
= 252

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(h) 21, 36

2	21, 36
2	21, 18
3	21, 9
3	7, 3
7	7, 1
	1, 1

L.C.M = 2 × 2 = 4, 4 × 3 = 12, 12 × 3 = 36, 36 × 7 = 252

(i) 15, 45

5	15, 45
	3, 9

3	15, 45
3	5, 15
5	5, 5
	1, 1

L.C.M => 3 × 3 × 5 = 45

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(5) 10, 20, 30

2	10, 20, 30
2	5, 10, 15
3	5, 5, 15
5	5, 5, 5
	1, 1, 1

L.C.M => 2 x 2 x 3 x 5 = 60

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