CW

Exercise 10 (E)

3.) a) 6, 36

2	6, 36
3	3, 18
3	1, 6
	2

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

So Lcm of 6 and 36 is = 36

b.) 25, 10

5	25, 10
	5, 2

So Lcm of 25 and 10 is 50

$5 \times 5 \times 2 = 50$

c.) 45, 27

3	45, 27
3	15, 9
	5, 3

So, Lcm of 45 and 27 is

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

d) 42, 49

7	42, 49
2	6, 7
	3, 7

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

e) 32, 64

2	32, 64
2	16, 32
2	8, 16
2	4, 8
2	2, 4
	1, 2

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

f) 18, 27

3	18, 27
3	6, 9
	2, 3

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

g) 36, 42

2	36, 42
3	18, 21
3	6, 7
	2, 7

So Lcm of 36 and 42 is
2 x 3 x 3 x 2 x 7 = 252

h) 15, 64

1	15, 64
	15, 64

So, Lcm = 15 x 64 = 960

i) 28, 32

4	28, 32
	7, 8

So, Lcm = 4 x 7 x 8 = 224

j.) 27, 81

$$9 \mid 27, 81$$
$$8, 9$$

So Lcm = 9 x 8 x 9 = 648