= 1439+1 = 1440

Revision Exercise

1. 108 | 288 | 420
2 | 54 | 144 | 210
3 | 27 | 72 | 105
3 | 9 | 36 | 35
3 | 12 | 7
3 | 4
4

108 = 2 × 2 × 3 × 3 × 3
288 = 2 × 2 × 2 × 2 × 2 × 3 × 3
120 = 2 × 2 × 3 × 5 × 7

HCF of 108, 288 & 420 = 2 × 2 × 3

= 12

2. 36, 54, 138

2 | 54 | 138
| 108
| 30 | 54
| 30
| 24

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Page

24) 30 (1
-24
6) 24 (4
-24
0

6) 36 (6
-36
0

HCF of 36, 54, 108 = 6

2. ~~72, 80, 252~~

2	72, 80, 252
2	36, 40, 126
2	18, 20, 63
2	9, 10, 63
3	9, 5, 63
3	3, 5, 21
	1, 5, 7

LCM of 2×2×2×2×3×3, 1×5×7
= 5040

Rough
720
× 7
5040

ii)

2	48, 66, 120
2	24, 33, 60
2	12, 33, 30
2	6, 33, 15
3	3, 33, 15
	1, 11, 5

LCM of 48, 66, 120 → 2×2×2×2×3×11×5 = 2640

T & F

3. i) a. T

ii) a. F

iii) b. T

iv) a. T

4. HCF = 36

Product of two numbers

Product of two numbers =
Product of their HCF & LCM
∴ The LCM is 384

4) Product of two numbers
= Product of their HCF & LCM
= 12096 = 36 × LCM

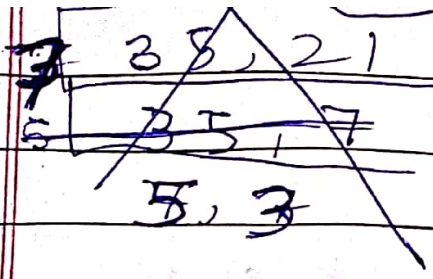
$$LCM = \frac{12096}{36}$$

∴ = 336

5) Product of two numbers
= Product of their HCF & LCM

48 × 24 = 1152

∴ Second number = 48 ÷ 1152
= 24



LCM of 140, 168 = 2×2×2×3×5×7

(7)

2	140, 168
2	70, 84
2	35, 42
3	35, 21
7	35, 7
	5, 1

LCM of 2×2×2×3×7×5
= 840

840 × 7 = 0

Product of two numbers = Product of their HCF & LCM

HCF = 1st number × 2nd number / LCM

140 | 168
-140
20

HCF = 28

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2 | 108   2 | 450
2 | 54   3 | 225
3 | 27   3 | 75
3 | 9   5 | 25
3   5

168
× 140
000
4720
16800
21520

HCF of 108 and 450 - 2 × 3 × 3

108 = 2 × 2 × 3 × 3 × 3

450 = 2 × 3 × 3 × 5 × 5

2 × 3 × 3

= 18

840 | 21520
16800

Product of two numbers = Product of HCF & LCM

LCM = 1st number × 2nd number / HCF

LCM = 2,700

6. 2 | 28   2 | 42
2 | 14   3 | 21
7   7

28 = 2 × 2 × 7

42 = 2 × 3 × 7

HCF of 28, 42 is 2 × 7 = 14

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2. 2 | 28, 42
2 | 14, 21
7 | 7, 21
1, 3

= LCM of 28, 42

i.e. 2 × 2 × 7 × 3

= 84

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