

$$7. \quad M = [24, 48, 72, 96, 120, 144, 168, 192, 216, \dots]$$

$$N = [28, 56, 84, 112, 140, 168, 196, \dots]$$

$$M.C.M = 24 = 28 = 168$$

$$\begin{array}{r|l} 24 & 2 \\ 12 & 2 \\ 6 & 2 \\ 3 & 3 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 28 & 2 \\ 14 & 2 \\ 7 & 7 \\ 1 & \end{array}$$

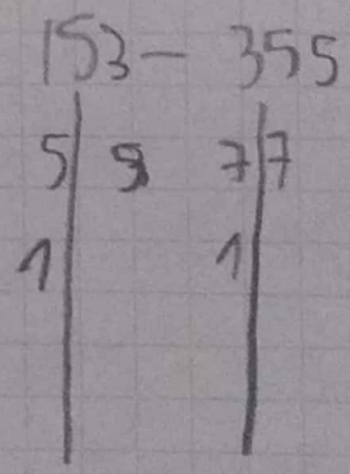
M.C.M: $2^3 \times 7 \times 3 = 168$

2

$m = [15, 30, 45, 60, 75, 90, 105, 120, 135, \dots]$

$n = [35, 70, 105, 140, 175, 210, 245, 280, \dots]$

M.C.M = 105



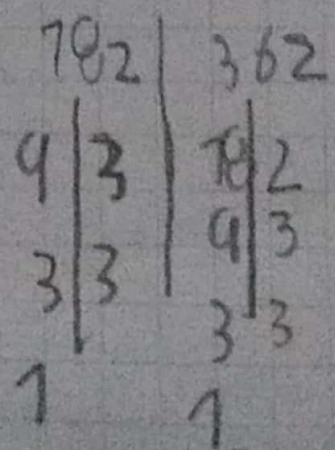
M.C.M $3 \times 7 \times 3 \times 5 = 105$

3

$m = [18, 36, 54, 72, 90, 108, 120, 144, \dots]$

$n = [36, 72, 108, 144, 180, 216, \dots]$

M.C.M = 72



M.C.M $2 \times 3^2 \times 2^2 = 72$

$$D = [12, 3, 4, 6, 8, 12, 18, 36]$$

$$D = [12, 3, 4, 6, 8, 12, 16, 24, 48]$$

$$M.C.D. = 12$$

$$\begin{array}{r|l} 362 & 482 \\ 18 & 24 \\ 9 & 12 \\ 3 & 6 \end{array}$$

$$M.C.D. = 2^2 \times 3 = 12$$

$$D = [1, 3, 5, 15]$$

$$D = [1, 5, 7, 35]$$

$$M.C.D. = 5$$

$$\begin{array}{r|l} 155 & 355 \\ 3 & 71 \end{array}$$

$$M.C.D. = 5$$

$$D_1 [1, 2, 3, 4, 6, 12]$$

$$D_2 [1, 2, 3, 6, 9, 18]$$

$$\text{M.C.D} = 6$$

$$122$$

$$6 \mid 2$$

$$3 \mid 3$$

$$182$$

$$9 \mid 3$$

$$3 \mid 3$$

$$\text{M.C.D} = 6$$