

15    20    26

$$15 = 3 \times 5 \times 1$$

$$20 = 2^2 \times 5 \times 1 \quad \text{MCD} = 1$$

$$26 = 2 \times 13 \times 1$$

$$\begin{array}{r|l} 15 & 3 \\ 5 & 5 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 20 & 2 \\ 10 & 2 \\ 5 & 5 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 26 & 2 \\ 13 & 13 \\ 1 & \end{array}$$

Due numeri si dicono primi tra loro quando il loro MCD è 1

$$21 - 35 - 15$$

$$\begin{array}{r|l} 21 & 3 \\ 7 & 7 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 35 & 5 \\ 7 & 7 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 15 & 3 \\ 5 & 5 \\ 1 & \end{array}$$

$$\begin{aligned} 21 &= 3 \times 7 \\ 35 &= 5 \times 7 \\ 15 &= 3 \times 5 \end{aligned}$$

$$\begin{aligned} \text{MCD} &= 1 \text{ (numeri primi)} \\ &\text{tra loro} \\ \text{mcm} &= 3 \times 5 \times 7 = 105 \end{aligned}$$

minimo comune multiplo:  
si prendono tutti i fattori  
si prendono una sola volta  
si prendono con  
l'esponente più grande

27

45

72

$$\begin{array}{r|l} 27 & 3 \\ 9 & 3 \\ 3 & 3 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 45 & 3 \\ 15 & 3 \\ 5 & 5 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 72 & 2 \\ 36 & 2 \\ 18 & 2 \\ 9 & 3 \\ 3 & 3 \\ 1 & \end{array}$$

$$\begin{aligned} 27 &= 3^3 \\ 45 &= 3^2 \times 5 \\ 72 &= 2^3 \times 3^2 \end{aligned}$$

$$\text{MCM} = 3^3 \times 2^3 \times 5 = 6^3 \times 5 = 216 \times 5 = 1080$$

54

90

126

$$\begin{array}{r|l} 54 & 2 \\ 27 & 3 \\ 9 & 3 \\ 3 & 3 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 90 & 2 \times 5 \\ 9 & 3 \\ 3 & 3 \\ 1 & \end{array}$$

$$\begin{array}{r|l} 126 & 2 \\ 63 & 3 \\ 21 & 3 \\ 7 & 7 \\ 1 & \end{array}$$

$$54 = 2 \times 3^3$$

$$90 = 2 \times 3^2 \times 5$$

$$126 = 2 \times 3^2 \times 7$$

$$\text{lcm} = 2 \times 3^3 \times 5 \times 7 = 27 \times 7 \times 10 = 1890$$