

## Actividad 8

1  $\text{mcd}(254, 32)$

$$\frac{254}{32} = 7 \frac{30}{32} \rightarrow 254 = 7 \cdot 32 + 30$$

$$\frac{32}{30} = 1 \frac{2}{30} \rightarrow 32 = 1 \cdot 30 + 2$$

$$\frac{30}{2} = 15 \rightarrow 30 = 15 \cdot 2 + 0$$

$$\text{mcd}(254, 32) = \underline{2}$$

2  $\text{mcd}(74, 383)$

$$\frac{383}{74} = 5 \frac{13}{74} \rightarrow 383 = 5 \cdot 74 + 13$$

$$\frac{74}{13} = 5 \frac{9}{13} \rightarrow 74 = 5 \cdot 13 + 9$$

$$\frac{13}{9} \rightarrow 13 = 1 \cdot 9 + 4$$

$$\frac{9}{4} = 2 \frac{1}{4} \rightarrow 9 = 2 \cdot 4 + 1$$

$$\frac{4}{1} \Rightarrow 4 = 4 \cdot 1 + 0 \quad \text{mcd}(74, 383) = \underline{1}$$

$$\underline{E} = (\text{us}, \text{FEB}) \text{ sum}$$

$$3) \text{ mcd}(7544, 115)$$

$$\frac{7544}{115} = 65 \frac{69}{115} \rightarrow 7544 = 115 \cdot 65 + 69$$

$$\frac{115}{69} = 1 \frac{46}{69} \rightarrow 115 = 1 \cdot 69 + 46$$

$$\frac{69}{46} = 1 \frac{23}{46} \rightarrow 69 = 46 \cdot 1 + 23$$

$$\frac{46}{23} = 2 \rightarrow 46 = 23 \cdot 2 + 0$$

$$\text{mcd}(7544, 115) = \underline{23}$$

$$4) \text{ mcd}(687, 24)$$

$$\frac{687}{24} = 28 \frac{15}{24} \rightarrow 687 = 24 \cdot 28 + 15$$

$$\frac{24}{15} = 1 \frac{9}{15} \rightarrow 24 = 15 \cdot 1 + 9$$

$$\frac{15}{9} = 1 \frac{6}{9} \rightarrow 15 = 9 \cdot 1 + 6$$

$$\frac{9}{6} = 1 \frac{3}{6} \rightarrow 9 = 6 \cdot 1 + 3$$

$$\frac{6}{3} = 2 \rightarrow 6 = 3 \cdot 2 + 0$$

$$\text{mcd}(687, 24) = \underline{3}$$