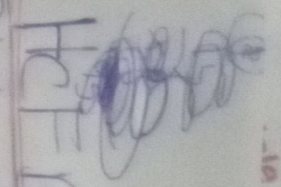


QW  
8/31/2021



Exercise - 10 - 1

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HCF by Division Method

Q) (a) 40 and 60.

$$\begin{array}{r|l} 2 & 40, 60 \\ \hline 2 & 20, 30 \\ \hline 5 & 10, 15 \\ \hline 2, 5 & \end{array}$$

Hence the common

factors are 2, 2, 5

$$\text{HCF of } 40 \text{ and } 60 = 2 \times 2 \times 5 = 20$$

(b) 45 and 225.

$$\begin{array}{r|l} 5 & 45, 225 \\ \hline 3 & 9, 45 \\ \hline 3 & 3, 15 \\ \hline 3 & 1, 5 \\ \hline & \end{array}$$

Hence, the common factors are

5, 3, 3

$$\text{HCF of } 45 \text{ and } 225 = 5 \times 3 \times 3 = 45$$



of 21, 63 and 189.

$$\begin{array}{r|l} 3 & 21, 63, 189 \\ 7 & 7, 21, 63 \\ \hline & 189 \end{array}$$

Hence, the common factors are 3, 7

$$\text{HCF of } 21, 63 \text{ and } 189 = 3 \times 7 = 21$$

of 87 and 145

$$\begin{array}{r|l} 29 & 87, 145 \\ \hline & 85 \end{array}$$

Hence, the common factors are 29

$$\text{HCF of } 87 \text{ and } 145 = 29$$



(e) 14 and 28.

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

Hence, the common factors are

2, 7

HCF of 14 and 28 =  $2 \times 7 = 14$

(f) 144, 252 and 228

$$\begin{array}{r|l} 2 & 144, 252, 228 \\ \hline 2 & 72, 126, 114 \\ \hline 3 & 36, 63, 57 \\ \hline & 12, 21, 19 \end{array}$$

Hence, The common factors are 2, 2, 3

HCF of 144, 252 and 228 =