

## Find GCF using Euclidean Algorithm Worksheets

1. Use the Euclidean Algorithm to find the GCF of 96 and 144.

2. Use the Euclidean Algorithm to find the GCF of 12 and 78.

3. Use the Euclidean Algorithm to find the GCF of 660 and 840.

Go to [onlinemathlearning.com](https://www.onlinemathlearning.com) for more free math resources

## Find GCF using Euclidean Algorithm Worksheets

1. Use the Euclidean Algorithm to find the GCF of 96 and 144.

$$\begin{array}{r} 1 \\ 96 \overline{)144} \\ \underline{-096} \\ 048 \end{array} \quad \rightarrow \quad \begin{array}{r} 2 \\ \textcircled{48} \overline{)96} \\ \underline{-96} \\ 00 \end{array}$$

The GCF is 48, which is the final divisor when the remainder is 0.

2. Use the Euclidean Algorithm to find the GCF of 12 and 78.

$$\begin{array}{r} 6 \\ 12 \overline{)78} \\ \underline{-72} \\ 06 \end{array} \quad \rightarrow \quad \begin{array}{r} 2 \\ \textcircled{6} \overline{)12} \\ \underline{-12} \\ 00 \end{array}$$

The GCF is 66, which is the final divisor when the remainder is 0.

3. Use the Euclidean Algorithm to find the GCF of 660 and 840.

$$\begin{array}{r} 1 \\ 660 \overline{)840} \\ \underline{-660} \\ 180 \end{array} \quad \rightarrow \quad \begin{array}{r} 3 \\ 180 \overline{)660} \\ \underline{-540} \\ 120 \end{array} \quad \rightarrow \quad \begin{array}{r} 1 \\ 120 \overline{)180} \\ \underline{-120} \\ 060 \end{array} \quad \rightarrow \quad \begin{array}{r} 2 \\ \textcircled{60} \overline{)120} \\ \underline{-120} \\ 000 \end{array}$$

The GCF is 60, which is the final divisor when the remainder is 0.

Go to [onlinemathlearning.com](https://www.onlinemathlearning.com) for more free math resources