$lcm(115,161,299)$ - less common multiple

It is easy to confirm that

115=5*23

161=7*23

299=13*23

According to the theorem about factorization of natural value

$$\left.\begin{matrix} a=p_1^{q_1}p_2^{q_2}...p_{r_1}^{q_{r_1}} \\ b=p_1^{t_1}p_2^{t_2}...p_{r_2}^{t_{r_2}} \\ c=p_1^{l_1}p_2^{l_2}...p_{r_3}^{l_{r_3}} \end{matrix}\right\} \Rightarrow lcm(a,b,c)=p_1^{\max\limits_{q,t,l}\{q_1,t_1,l_1\}}p_2^{\max\limits_{q,t,l}\{q_2,t_2,l_2\}}...$$ - the definition.

As we can manually calculate

$$p_1=5, p_2=7, p_3=13, p_4=23. \max_{r,l,t}\{q_i,t_i,l_i\}=1 \Rightarrow$$

Consequently, according to the definition

$$lcm(115,161,299)=5\cdot7\cdot13\cdot23=10465$$