

EGYPTIAN UNIT FRACTION TABLE

This table is based on that at the beginning of the Rhind Papyrus. I have assembled it for M330 (Hist. of Math., Prof. W. Aitken, 2004-10). Here \bar{n} represents the unit fraction $1/n$.

\bar{n}	2 times \bar{n}	\bar{n}	2 times \bar{n}	\bar{n}	2 times \bar{n}
$\bar{3}$	$\bar{2} \bar{6}$	$\bar{37}$	$\bar{24} \bar{111} \bar{296}$	$\bar{71}$	$\bar{40} \bar{568} \bar{710}$
$\bar{5}$	$\bar{3} \bar{15}$	$\bar{39}$	$\bar{26} \bar{78}$	$\bar{73}$	$\bar{60} \bar{219} \bar{292} \bar{365}$
$\bar{7}$	$\bar{4} \bar{28}$	$\bar{41}$	$\bar{24} \bar{246} \bar{328}$	$\bar{75}$	$\bar{50} \bar{150}$
$\bar{9}$	$\bar{6} \bar{18}$	$\bar{43}$	$\bar{42} \bar{86} \bar{129} \bar{301}$	$\bar{77}$	$\bar{44} \bar{308}$
$\bar{11}$	$\bar{6} \bar{66}$	$\bar{45}$	$\bar{30} \bar{90}$	$\bar{79}$	$\bar{60} \bar{237} \bar{316} \bar{790}$
$\bar{13}$	$\bar{8} \bar{52} \bar{104}$	$\bar{47}$	$\bar{30} \bar{141} \bar{470}$	$\bar{81}$	$\bar{54} \bar{162}$
$\bar{15}$	$\bar{10} \bar{30}$	$\bar{49}$	$\bar{28} \bar{196}$	$\bar{83}$	$\bar{60} \bar{332} \bar{415} \bar{498}$
$\bar{17}$	$\bar{12} \bar{51} \bar{68}$	$\bar{51}$	$\bar{34} \bar{102}$	$\bar{85}$	$\bar{51} \bar{255}$
$\bar{19}$	$\bar{12} \bar{76} \bar{114}$	$\bar{53}$	$\bar{30} \bar{318} \bar{795}$	$\bar{87}$	$\bar{58} \bar{174}$
$\bar{21}$	$\bar{14} \bar{42}$	$\bar{55}$	$\bar{30} \bar{330}$	$\bar{89}$	$\bar{60} \bar{356} \bar{534} \bar{890}$
$\bar{23}$	$\bar{12} \bar{276}$	$\bar{57}$	$\bar{38} \bar{114}$	$\bar{91}$	$\bar{70} \bar{130}$
$\bar{25}$	$\bar{15} \bar{75}$	$\bar{59}$	$\bar{36} \bar{236} \bar{531}$	$\bar{93}$	$\bar{62} \bar{186}$
$\bar{27}$	$\bar{18} \bar{54}$	$\bar{61}$	$\bar{40} \bar{244} \bar{488} \bar{610}$	$\bar{95}$	$\bar{60} \bar{380} \bar{570}$
$\bar{29}$	$\bar{24} \bar{58} \bar{174} \bar{232}$	$\bar{63}$	$\bar{42} \bar{126}$	$\bar{97}$	$\bar{56} \bar{679} \bar{776}$
$\bar{31}$	$\bar{20} \bar{124} \bar{155}$	$\bar{65}$	$\bar{39} \bar{195}$	$\bar{99}$	$\bar{66} \bar{198}$
$\bar{33}$	$\bar{22} \bar{66}$	$\bar{67}$	$\bar{40} \bar{335} \bar{536}$	$\bar{101}$	$\bar{101} \bar{202} \bar{303} \bar{606}$
$\bar{35}$	$\bar{30} \bar{42}$	$\bar{69}$	$\bar{46} \bar{138}$		

Observe that for $\overline{3m}$, the combination $\overline{2m} \overline{6m}$ is used. Observe that sometimes for $\overline{5m}$, the combination $\overline{3m} \overline{15m}$ is used.