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Appendix A
Branching Data Table

Branching Data and $\mu(n_1,\ldots,n_t)$-values, $t=3,4, \mu \leq \frac{1}{4}$

$\mu(l,m,n) = 1 - \frac{1}{l} - \frac{1}{m} - \frac{1}{n}$ (triangles)
$\mu(k,l,m,n) = 2 - \frac{1}{k} - \frac{1}{l} - \frac{1}{m} - \frac{1}{n}$ (quadrilaterals)
$\mu(n_1,\ldots,n_t) = t - 2 - \sum_{i=1}^{t} \frac{1}{n_i}$ (t-sided polygon),

Branching Data	μ	**Branching Data**	μ	**Branching Data**	μ
$(2,3,7)$	$\frac{1}{42}$	$(2,3,d), d \geq 133$	$\frac{d-6}{6d}$	$(2,5,14)$	$\frac{8}{35}$
$(2,3,8)$	$\frac{1}{24}$	$(2,4,12),(2,6,6),(3,3,6)$	$\frac{1}{6}$	$(2,4,d), 47 \leq d \leq 55$	$\frac{d-4}{4d}$
$(2,4,5)$	$\frac{1}{20}$	$(3,4,4),(2,2,2,3)$	$\frac{1}{6}$	$(2,4,56),(2,7,8)$	$\frac{13}{56}$
$(2,3,9)$	$\frac{1}{18}$	$(2,4,13)$	$\frac{9}{52}$	$(2,4,d), 57 \leq d \leq 59$	$\frac{d-4}{4d}$
$(2,3,d), d = 10, a11$	$\frac{d-6}{6d}$	$(2,5,8)$	$\frac{7}{40}$	$(2,4,60),(2,5,15)$	$\frac{7}{30}$
$(2,3,12),(2,4,6),(3,3,4)$	$\frac{1}{12}$	$(2,4,d), 14 \leq d \leq 16$	$\frac{d-4}{4d}$	$(2,6,10),(3,3,10)$	$\frac{7}{30}$
$(2,3,d), d = 13, 14$	$\frac{d-6}{6d}$	$(2,5,9)$	$\frac{17}{90}$	$(2,4,d), 61 \leq d \leq 79$	$\frac{d-4}{4d}$
$(2,3,15),(2,5,5)$	$\frac{1}{10}$	$(2,6,7),(3,3,7)$	$\frac{4}{21}$	$(2,4,80),(2,5,16)$	$\frac{19}{80}$
$(2,3,16)$	$\frac{5}{48}$	$(2,4,d), 17 \leq d \leq 19$	$\frac{d-4}{4d}$	$(2,4,d), 81 \leq d \leq 113$	$\frac{d-4}{4d}$
$(2,4,7)$	$\frac{3}{28}$	$(2,4,20),(2,5,10)$	$\frac{1}{5}$	$(2,5,17)$	$\frac{41}{170}$
$(2,3,17)$	$\frac{11}{102}$	$(2,4,d), 21 \leq d \leq 23$	$\frac{d-4}{4d}$	$(2,4,d), 114 \leq d \leq 131$	$\frac{d-4}{4d}$
$(2,3,d), 18 \leq d \leq 23$	$\frac{d-6}{6d}$	$(2,4,24),(2,6,8),(3,3,8)$	$\frac{5}{24}$	$(2,4,132),(2,6,11),(3,3,11)$	$\frac{8}{33}$
$(2,3,24),(2,4,8)$	$\frac{1}{8}$	$(2,5,11)$	$\frac{23}{110}$	$(2,4,d), 133 \leq d \leq 179$	$\frac{d-4}{4d}$
$(2,3,d), 25 \leq d \leq 29$	$\frac{d-6}{6d}$	$(2,4,d), 25 \leq d \leq 27$	$\frac{d-4}{4d}$	$(2,4,180),(2,5,18)$	$\frac{11}{45}$
$(2,3,30),(2,5,6),(3,3,5)$	$\frac{2}{15}$	$(2,4,28),(2,7,7)$	$\frac{3}{14}$	$(2,4,d), 181 \leq d \leq 251$	$\frac{d-4}{4d}$
$(2,3,d), 31 \leq d \leq 35$	$\frac{d-6}{6d}$	$(2,4,29)$	$\frac{25}{116}$	$(2,4,252),(2,7,9)$	$\frac{31}{126}$
$(2,3,36),(2,4,9)$	$\frac{5}{36}$	$(2,4,30),(2,5,12),(3,4,5)$	$\frac{13}{60}$	$(2,4,d), 253 \leq d \leq 379$	$\frac{d-4}{4d}$
$(2,3,d), 37 \leq d \leq 59$	$\frac{d-6}{6d}$	$(2,4,d), 31 \leq d \leq 35$	$\frac{d-4}{4d}$	$(2,4,380),(2,5,19)$	$\frac{47}{190}$
$(2,3,60),(2,4,10)$	$\frac{3}{20}$	$(2,4,36),(2,6,9),(3,3,9)$	$\frac{2}{9}$	$(2,4,d), d \geq 381$	$\frac{d-4}{4d}$
$(2,3,d), 61 \leq d \leq 104$	$\frac{d-6}{6d}$	$(2,4,37)$	$\frac{33}{148}$	$(2,5,20),(2,6,12),(2,8,8)$	$\frac{1}{4}$
$(2,3,105),(2,5,7)$	$\frac{11}{70}$	$(2,5,13)$	$\frac{29}{130}$	$(3,3,12),(3,4,6),(4,4,4)$	$\frac{1}{4}$
$(2,3,d), 106 \leq d \leq 131$	$\frac{d-6}{6d}$	$(2,4,d), 38 \leq d \leq 46$	$\frac{d-4}{4d}$	$(2,2,2,4)$	$\frac{1}{4}$
$(2,3,132),(2,4,11)$	$\frac{7}{44}$				