

2. Classical Two-Color Ramsey Numbers

2.1. Values and bounds for $R(k, l)$, $k \leq 10$, $l \leq 15$

$k \backslash l$	3	4	5	6	7	8	9	10	11	12	13	14	15
3	6	9	14	18	23	28	36	40 42	47 50	52 59	59 68	66 77	73 87
4		18	25	36 41	49 61	58 84	73 115	92 149	98 191	128 238	133 291	141 349	153 417
5			43 49	58 87	80 143	101 216	126 316	144 442	171 633	191 848	213 1138	239 1461	265 1878
6				102 165	113 298	132 495	169 780	179 1171	253 1804	263 2566	317 3703		401 6911
7					205 540	217 1031	241 1713	289 2826	405 4553	417 6954	511 10578		22112
8						282 1870	317 3583				817		861
9							565 6588	581 12677					
10								798 23556					1265

Table I. Known nontrivial values and bounds for two color Ramsey numbers $R(k, l) = R(k, l; 2)$.

$k \backslash l$	4	5	6	7	8	9	10	11	12	13	14	15
3	GG	GG	Kéry	Ka2 GrY	GR MZ	Ka2 GR	Ex5 GoR1	Ex20 GoR1	Ex12 Les	Piw1 GoR1	Ex8 GoR1	WW GoR1
4	GG	Ka1 MR4	Ex19 MR5	Ex3 Mac	Ex20 Mac	Ex16 Mac	HaKr1 Mac	Ex17 Spe4	SLL Spe4	2.3.e Spe4	XXR Spe4	XXR Spe4
5		Ex4 MR5	Ex9 HZ1	CaET Spe4	HaKr1 Spe4	Ex17 Mac	Ex17 Mac	Gerb HW+	Gerb HW+	Gerb HW+	Gerb HW+	Ex16 HW+
6			Ka1 Mac	Ex16 Mac	XSR2 Mac	XXER Mac	Ex16 Mac	XXR HW+	XSR2 HW+	XXER HW+		2.3.h HW+
7				She2 Mac	XSR2 Mac	XSR2 HZ1	2.3.h Mac	XXER HW+	XSR2 HW+	XXR HW+	HW+	HW+
8					BR Mac	XXER Ea1	HZ1	HW+	HW+	XXER HW+	HW+	2.3.h HW+
9						She2 ShZ1	XSR2 Ea1	HW+	HW+	HW+		
10							She2 Shi2	HW+	HW+			2.3.h

References for Table I;

HW+ abbreviates HWSYZH, as enhanced by Boza [Boza5], see 2.1.m.