

TABLE Percentage Points  $\chi^2_{\alpha,\nu}$  of the Chi-Squared Distribution

1     .00+     .00+     .00+     .02     .45     2.71     3.84     5.02     6.63     7.88       2     .01     .02     .05     .10     .21     1.39     4.61     5.99     7.38     9.21     10.60       3     .07     .11     .22     .35     .58     2.37     6.25     7.81     9.35     11.34     12.84       4     .21     .30     .48     .71     1.06     3.36     7.78     9.94     11.14     13.28     14.86       5     .41     .55     .83     1.15     1.61     4.35     9.24     11.07     12.83     15.09     16.75       6     .68     .87     1.24     1.64     2.20     5.35     10.65     14.45     16.81     18.55       7     .99     1.24     1.69     2.17     2.83     6.35     12.02     14.07     16.01     18.48     20.28       8     1.34     1.65     2.18     2.73     3.4	$v^{\alpha}$	.995	.990	.975	.950	.900	.500	.100	.050	.025	.010	.005
3     0.07     1.11     2.22     3.55     5.58     2.37     6.25     7.81     9.35     11.34     12.84       4     2.21     3.0     48     7.1     1.06     3.36     7.78     9.49     11.14     13.28     14.86       5     4.1     5.55     83     1.15     1.61     4.35     9.24     11.07     12.83     15.09     16.75       6     6.68     8.87     1.24     1.69     2.17     2.83     6.35     12.02     14.07     16.01     18.48     20.28       8     1.34     1.65     2.18     2.73     3.49     7.34     13.36     15.51     17.53     20.09     21.96       9     1.73     2.09     2.70     3.33     4.17     8.34     14.68     16.92     19.02     21.67     23.59       10     2.16     2.56     3.25     3.94     4.87     9.34     15.99     18.31     20.42     22.72     26.76       11 <t< td=""><td>1</td><td>+00.</td><td>+00.</td><td>+00.</td><td>+00.</td><td>.02</td><td>.45</td><td>2.71</td><td>3.84</td><td>5.02</td><td>6.63</td><td>7.88</td></t<>	1	+00.	+00.	+00.	+00.	.02	.45	2.71	3.84	5.02	6.63	7.88
4     .21     .30     .48     .71     1.06     3.36     7.78     9.49     11.14     13.28     14.86       5     .41     .55     .83     1.15     1.61     4.35     9.24     11.07     12.83     15.09     16.75       6     .68     .87     1.24     1.64     2.20     5.35     10.65     12.59     14.45     16.81     18.55       7     .99     1.24     1.69     2.17     2.83     6.35     12.02     14.07     16.01     18.48     20.28       8     1.34     1.65     2.18     2.73     3.49     7.34     13.36     15.51     17.53     20.09     21.06     23.59       10     2.16     2.56     3.25     3.94     4.87     9.34     15.99     18.31     20.48     23.21     25.19       11     2.60     3.05     3.82     4.57     5.58     10.34     17.28     19.68     21.92     24.72     26.76       12	2	.01	.02	.05	.10	.21	1.39	4.61	5.99	7.38	9.21	10.60
5     .41     .55     .83     1.15     1.61     4.35     9.24     11.07     12.83     15.09     16.75       6     .68     .87     1.24     1.64     2.20     5.35     10.65     12.59     14.45     16.81     18.55       7     .99     1.24     1.69     2.17     2.83     6.35     12.02     14.07     16.01     18.48     20.28       8     1.34     1.65     2.18     2.73     3.49     7.34     13.36     15.51     17.53     20.09     2.70     3.33     4.17     8.34     14.68     16.92     19.02     21.67     23.59       10     2.16     2.56     3.25     3.94     4.87     9.34     15.99     18.31     20.48     23.21     25.19       11     2.60     3.05     3.82     4.57     5.58     10.34     17.28     19.68     21.92     24.72     26.76       12     3.07     3.57     4.40     5.23     6.37     7.79 <td>3</td> <td>.07</td> <td>.11</td> <td>.22</td> <td>.35</td> <td>.58</td> <td>2.37</td> <td>6.25</td> <td>7.81</td> <td>9.35</td> <td>11.34</td> <td>12.84</td>	3	.07	.11	.22	.35	.58	2.37	6.25	7.81	9.35	11.34	12.84
6     .68     .87     1.24     1.64     2.20     5.35     10.65     12.59     14.45     16.81     18.55       7     .99     1.24     1.69     2.17     2.83     6.35     12.02     14.07     16.01     18.48     20.28       8     1.34     1.65     2.18     2.73     3.49     7.34     13.36     15.51     17.53     20.09     21.96       9     1.73     2.09     2.70     3.33     4.17     8.34     16.692     19.02     21.67     23.59       10     2.16     2.56     3.25     3.94     4.87     9.34     15.99     18.31     20.48     23.21     25.19       11     2.60     3.05     3.82     4.57     5.58     10.34     17.28     19.68     21.92     24.72     26.76       12     3.07     3.57     4.40     5.23     6.30     11.34     18.55     21.03     23.34     26.22     28.30       13     3.57     4.11 </td <td>4</td> <td>.21</td> <td>.30</td> <td>.48</td> <td>.71</td> <td>1.06</td> <td>3.36</td> <td>7.78</td> <td>9.49</td> <td>11.14</td> <td>13.28</td> <td>14.86</td>	4	.21	.30	.48	.71	1.06	3.36	7.78	9.49	11.14	13.28	14.86
7     .99     1.24     1.69     2.17     2.83     6.35     12.02     14.07     16.01     18.48     20.28       8     1.34     1.65     2.18     2.73     3.49     7.34     13.36     15.51     17.53     20.09     21.96       9     1.73     2.09     2.70     3.33     4.17     8.34     14.68     16.92     19.02     21.67     23.59       10     2.16     2.56     3.25     3.39     4.87     9.34     15.99     18.31     20.48     23.21     25.19       11     2.60     3.05     3.82     4.57     5.58     10.34     17.28     19.68     21.92     24.72     26.76       12     3.07     3.57     4.40     5.23     6.30     11.34     18.55     21.03     23.34     26.22     28.30       13     3.57     4.11     5.01     5.89     7.04     12.34     19.81     22.36     24.74     27.69     29.82       14     4.	5	.41	.55	.83	1.15	1.61	4.35	9.24	11.07	12.83	15.09	16.75
8     1.34     1.65     2.18     2.73     3.49     7.34     13.36     15.51     17.53     20.09     21.96       9     1.73     2.09     2.70     3.33     4.17     8.34     14.68     16.92     19.02     21.67     23.59       10     2.16     2.56     3.25     3.94     4.87     9.34     15.99     18.31     20.48     23.21     25.19       11     2.60     3.05     3.82     4.57     5.58     10.34     17.28     19.68     21.92     24.72     26.76       12     3.07     3.57     4.40     5.23     6.30     11.34     18.55     21.03     23.34     26.22     28.30       13     3.57     4.11     5.01     5.89     7.04     12.34     19.81     22.36     24.74     27.69     29.82       14     4.07     4.66     5.63     6.57     7.79     13.34     21.06     23.68     26.12     29.14     31.32       15 <td< td=""><td>6</td><td>.68</td><td>.87</td><td>1.24</td><td>1.64</td><td>2.20</td><td>5.35</td><td>10.65</td><td>12.59</td><td>14.45</td><td>16.81</td><td>18.55</td></td<>	6	.68	.87	1.24	1.64	2.20	5.35	10.65	12.59	14.45	16.81	18.55
9     1.73     2.09     2.70     3.33     4.17     8.34     14.68     16.92     19.02     21.67     23.59       10     2.16     2.56     3.25     3.94     4.87     9.34     15.99     18.31     20.48     23.21     25.19       11     2.60     3.05     3.82     4.57     5.58     10.34     17.28     19.68     21.92     24.72     26.76       12     3.07     3.57     4.40     5.23     6.30     11.34     18.55     21.03     23.34     26.22     28.30       13     3.57     4.11     5.01     5.89     7.04     12.34     19.81     22.36     24.74     27.69     29.82       14     4.07     4.66     5.63     6.57     7.79     13.34     21.06     23.68     26.12     29.14     31.32       15     4.60     5.23     6.27     7.26     8.55     14.34     22.31     25.00     27.49     30.58     32.80       16     <	7	.99	1.24	1.69	2.17	2.83	6.35	12.02	14.07	16.01	18.48	20.28
10     2.16     2.56     3.25     3.94     4.87     9.34     15.99     18.31     20.48     23.21     25.19       11     2.60     3.05     3.82     4.57     5.58     10.34     17.28     19.68     21.92     24.72     26.76       12     3.07     3.57     4.40     5.23     6.30     11.34     18.55     21.03     23.34     26.22     28.30       13     3.57     4.11     5.01     5.89     7.04     12.34     19.81     22.36     24.74     27.69     29.82       14     4.07     4.66     5.63     6.57     7.79     13.34     21.06     23.68     26.12     29.14     31.32       15     4.60     5.23     6.27     7.26     8.55     14.34     22.31     25.00     27.49     30.58     32.80       16     5.14     5.81     6.91     7.96     9.31     15.34     24.77     27.59     30.19     33.41     35.72       18	8	1.34	1.65	2.18	2.73	3.49	7.34	13.36	15.51	17.53	20.09	21.96
11     2.60     3.05     3.82     4.57     5.58     10.34     17.28     19.68     21.92     24.72     26.76       12     3.07     3.57     4.40     5.23     6.30     11.34     18.55     21.03     23.34     26.22     28.30       13     3.57     4.11     5.01     5.89     7.04     12.34     19.81     22.36     24.74     27.69     29.82       14     4.07     4.66     5.63     6.57     7.79     13.34     21.06     23.68     26.12     29.14     31.32       15     4.60     5.23     6.27     7.26     8.55     14.34     22.31     25.00     27.49     30.58     32.80       16     5.14     5.81     6.91     7.96     9.31     15.34     23.54     26.30     28.85     32.00     34.27       17     5.70     6.41     7.56     8.67     10.09     16.34     24.77     27.59     30.19     33.41     37.62       18	9	1.73	2.09	2.70	3.33	4.17	8.34	14.68	16.92	19.02	21.67	23.59
12     3.07     3.57     4.40     5.23     6.30     11.34     18.55     21.03     23.34     26.22     28.30       13     3.57     4.11     5.01     5.89     7.04     12.34     19.81     22.36     24.74     27.69     29.82       14     4.07     4.66     5.63     6.57     7.79     13.34     21.06     23.68     26.12     29.14     31.32       15     4.60     5.23     6.27     7.26     8.55     14.34     22.31     25.00     27.49     30.58     32.80       16     5.14     5.81     6.91     7.96     9.31     15.34     23.54     26.30     28.85     32.00     34.27       17     5.70     6.41     7.56     8.67     10.09     16.34     24.77     27.59     30.19     33.41     35.72       18     6.26     7.01     8.23     9.39     10.87     17.34     25.99     28.87     31.53     34.81     37.16       19	10	2.16	2.56	3.25	3.94	4.87	9.34	15.99	18.31	20.48	23.21	25.19
13     3.57     4.11     5.01     5.89     7.04     12.34     19.81     22.36     24.74     27.69     29.82       14     4.07     4.66     5.63     6.57     7.79     13.34     21.06     23.68     26.12     29.14     31.32       15     4.60     5.23     6.27     7.26     8.55     14.34     22.31     25.00     27.49     30.58     32.80       16     5.14     5.81     6.91     7.96     9.31     15.34     23.54     26.30     28.85     32.00     34.27       17     5.70     6.41     7.56     8.67     10.09     16.34     24.77     27.59     30.19     33.41     35.72       18     6.26     7.01     8.23     9.39     10.87     17.34     25.99     28.87     31.53     34.81     37.16       19     6.84     7.63     8.91     10.12     11.65     18.34     27.20     30.14     32.85     36.19     38.58       20	11	2.60	3.05	3.82	4.57	5.58	10.34	17.28	19.68	21.92	24.72	26.76
14     4.07     4.66     5.63     6.57     7.79     13.34     21.06     23.68     26.12     29.14     31.32       15     4.60     5.23     6.27     7.26     8.55     14.34     22.31     25.00     27.49     30.58     32.80       16     5.14     5.81     6.91     7.96     9.31     15.34     23.54     26.30     28.85     32.00     34.27       17     5.70     6.41     7.56     8.67     10.09     16.34     24.77     27.59     30.19     33.41     35.72       18     6.26     7.01     8.23     9.39     10.87     17.34     25.99     28.87     31.53     34.81     37.16       19     6.84     7.63     8.91     10.12     11.65     18.34     27.20     30.14     32.85     36.19     38.58       20     7.43     8.26     9.59     10.85     12.44     19.34     28.41     31.41     34.17     37.57     40.00       21	12	3.07	3.57	4.40	5.23	6.30	11.34	18.55	21.03	23.34	26.22	28.30
15     4.60     5.23     6.27     7.26     8.55     14.34     22.31     25.00     27.49     30.58     32.80       16     5.14     5.81     6.91     7.96     9.31     15.34     23.54     26.30     28.85     32.00     34.27       17     5.70     6.41     7.56     8.67     10.09     16.34     24.77     27.59     30.19     33.41     35.72       18     6.26     7.01     8.23     9.39     10.87     17.34     25.99     28.87     31.53     34.81     37.16       19     6.84     7.63     8.91     10.12     11.65     18.34     27.20     30.14     32.85     36.19     38.58       20     7.43     8.26     9.59     10.85     12.44     19.34     28.41     31.41     34.17     37.57     40.00       21     8.03     8.90     10.28     11.59     13.24     20.34     29.62     32.67     35.48     38.93     41.40       22 <td>13</td> <td>3.57</td> <td>4.11</td> <td>5.01</td> <td>5.89</td> <td>7.04</td> <td>12.34</td> <td>19.81</td> <td>22.36</td> <td>24.74</td> <td>27.69</td> <td>29.82</td>	13	3.57	4.11	5.01	5.89	7.04	12.34	19.81	22.36	24.74	27.69	29.82
16     5.14     5.81     6.91     7.96     9.31     15.34     23.54     26.30     28.85     32.00     34.27       17     5.70     6.41     7.56     8.67     10.09     16.34     24.77     27.59     30.19     33.41     35.72       18     6.26     7.01     8.23     9.39     10.87     17.34     25.99     28.87     31.53     34.81     37.16       19     6.84     7.63     8.91     10.12     11.65     18.34     27.20     30.14     32.85     36.19     38.58       20     7.43     8.26     9.59     10.85     12.44     19.34     28.41     31.41     34.17     37.57     40.00       21     8.03     8.90     10.28     11.59     13.24     20.34     29.62     32.67     35.48     38.93     41.40       22     8.64     9.54     10.98     12.34     14.04     21.34     30.81     33.92     36.78     40.29     42.80       23	14	4.07	4.66	5.63	6.57	7.79	13.34	21.06	23.68	26.12	29.14	31.32
17     5.70     6.41     7.56     8.67     10.09     16.34     24.77     27.59     30.19     33.41     35.72       18     6.26     7.01     8.23     9.39     10.87     17.34     25.99     28.87     31.53     34.81     37.16       19     6.84     7.63     8.91     10.12     11.65     18.34     27.20     30.14     32.85     36.19     38.58       20     7.43     8.26     9.59     10.85     12.44     19.34     28.41     31.41     34.17     37.57     40.00       21     8.03     8.90     10.28     11.59     13.24     20.34     29.62     32.67     35.48     38.93     41.40       22     8.64     9.54     10.98     12.34     14.04     21.34     30.81     33.92     36.78     40.29     42.80       23     9.26     10.20     11.69     13.09     14.85     22.34     32.01     35.17     38.08     41.64     44.18 <t< td=""><td>15</td><td>4.60</td><td>5.23</td><td>6.27</td><td>7.26</td><td>8.55</td><td>14.34</td><td>22.31</td><td>25.00</td><td>27.49</td><td>30.58</td><td>32.80</td></t<>	15	4.60	5.23	6.27	7.26	8.55	14.34	22.31	25.00	27.49	30.58	32.80
18     6.26     7.01     8.23     9.39     10.87     17.34     25.99     28.87     31.53     34.81     37.16       19     6.84     7.63     8.91     10.12     11.65     18.34     27.20     30.14     32.85     36.19     38.58       20     7.43     8.26     9.59     10.85     12.44     19.34     28.41     31.41     34.17     37.57     40.00       21     8.03     8.90     10.28     11.59     13.24     20.34     29.62     32.67     35.48     38.93     41.40       22     8.64     9.54     10.98     12.34     14.04     21.34     30.81     33.92     36.78     40.29     42.80       23     9.26     10.20     11.69     13.09     14.85     22.34     32.01     35.17     38.08     41.64     44.18       24     9.89     10.86     12.40     13.85     15.66     23.34     33.20     36.42     39.36     42.98     45.56	16	5.14	5.81	6.91	7.96	9.31	15.34	23.54	26.30	28.85	32.00	34.27
19     6.84     7.63     8.91     10.12     11.65     18.34     27.20     30.14     32.85     36.19     38.58       20     7.43     8.26     9.59     10.85     12.44     19.34     28.41     31.41     34.17     37.57     40.00       21     8.03     8.90     10.28     11.59     13.24     20.34     29.62     32.67     35.48     38.93     41.40       22     8.64     9.54     10.98     12.34     14.04     21.34     30.81     33.92     36.78     40.29     42.80       23     9.26     10.20     11.69     13.09     14.85     22.34     32.01     35.17     38.08     41.64     44.18       24     9.89     10.86     12.40     13.85     15.66     23.34     33.20     36.42     39.36     42.98     45.56       25     10.52     11.52     13.12     14.61     16.47     24.34     35.56     38.89     41.92     45.64     48.29	17	5.70	6.41	7.56	8.67	10.09	16.34	24.77	27.59	30.19	33.41	35.72
20     7.43     8.26     9.59     10.85     12.44     19.34     28.41     31.41     34.17     37.57     40.00       21     8.03     8.90     10.28     11.59     13.24     20.34     29.62     32.67     35.48     38.93     41.40       22     8.64     9.54     10.98     12.34     14.04     21.34     30.81     33.92     36.78     40.29     42.80       23     9.26     10.20     11.69     13.09     14.85     22.34     32.01     35.17     38.08     41.64     44.18       24     9.89     10.86     12.40     13.85     15.66     23.34     33.20     36.42     39.36     42.98     45.56       25     10.52     11.52     13.12     14.61     16.47     24.34     34.28     37.65     40.65     44.31     46.93       26     11.16     12.20     13.84     15.38     17.29     25.34     35.56     38.89     41.92     45.64     48.29	18	6.26	7.01	8.23	9.39	10.87	17.34	25.99	28.87	31.53	34.81	37.16
21   8.03   8.90   10.28   11.59   13.24   20.34   29.62   32.67   35.48   38.93   41.40     22   8.64   9.54   10.98   12.34   14.04   21.34   30.81   33.92   36.78   40.29   42.80     23   9.26   10.20   11.69   13.09   14.85   22.34   32.01   35.17   38.08   41.64   44.18     24   9.89   10.86   12.40   13.85   15.66   23.34   33.20   36.42   39.36   42.98   45.56     25   10.52   11.52   13.12   14.61   16.47   24.34   34.28   37.65   40.65   44.31   46.93     26   11.16   12.20   13.84   15.38   17.29   25.34   35.56   38.89   41.92   45.64   48.29     27   11.81   12.88   14.57   16.15   18.11   26.34   36.74   40.11   43.19   46.96   49.65     28   12.46   13.57   15.31   16.93   18.94   27.34   3	19	6.84	7.63	8.91	10.12	11.65	18.34	27.20	30.14	32.85	36.19	38.58
22   8.64   9.54   10.98   12.34   14.04   21.34   30.81   33.92   36.78   40.29   42.80     23   9.26   10.20   11.69   13.09   14.85   22.34   32.01   35.17   38.08   41.64   44.18     24   9.89   10.86   12.40   13.85   15.66   23.34   33.20   36.42   39.36   42.98   45.56     25   10.52   11.52   13.12   14.61   16.47   24.34   34.28   37.65   40.65   44.31   46.93     26   11.16   12.20   13.84   15.38   17.29   25.34   35.56   38.89   41.92   45.64   48.29     27   11.81   12.88   14.57   16.15   18.11   26.34   36.74   40.11   43.19   46.96   49.65     28   12.46   13.57   15.31   16.93   18.94   27.34   37.92   41.34   44.46   48.28   50.99     29   13.12   14.26   16.05   17.71   19.77   28.34 <td< td=""><td>20</td><td>7.43</td><td>8.26</td><td>9.59</td><td>10.85</td><td>12.44</td><td>19.34</td><td>28.41</td><td>31.41</td><td>34.17</td><td>37.57</td><td>40.00</td></td<>	20	7.43	8.26	9.59	10.85	12.44	19.34	28.41	31.41	34.17	37.57	40.00
23     9.26     10.20     11.69     13.09     14.85     22.34     32.01     35.17     38.08     41.64     44.18       24     9.89     10.86     12.40     13.85     15.66     23.34     33.20     36.42     39.36     42.98     45.56       25     10.52     11.52     13.12     14.61     16.47     24.34     34.28     37.65     40.65     44.31     46.93       26     11.16     12.20     13.84     15.38     17.29     25.34     35.56     38.89     41.92     45.64     48.29       27     11.81     12.88     14.57     16.15     18.11     26.34     36.74     40.11     43.19     46.96     49.65       28     12.46     13.57     15.31     16.93     18.94     27.34     37.92     41.34     44.46     48.28     50.99       29     13.12     14.26     16.05     17.71     19.77     28.34     39.09     42.56     45.72     49.59     52.34	21	8.03	8.90	10.28	11.59	13.24	20.34	29.62	32.67	35.48	38.93	41.40
24   9.89   10.86   12.40   13.85   15.66   23.34   33.20   36.42   39.36   42.98   45.56     25   10.52   11.52   13.12   14.61   16.47   24.34   34.28   37.65   40.65   44.31   46.93     26   11.16   12.20   13.84   15.38   17.29   25.34   35.56   38.89   41.92   45.64   48.29     27   11.81   12.88   14.57   16.15   18.11   26.34   36.74   40.11   43.19   46.96   49.65     28   12.46   13.57   15.31   16.93   18.94   27.34   37.92   41.34   44.46   48.28   50.99     29   13.12   14.26   16.05   17.71   19.77   28.34   39.09   42.56   45.72   49.59   52.34     30   13.79   14.95   16.79   18.49   20.60   29.34   40.26   43.77   46.98   50.89   53.67     40   20.71   22.16   24.43   26.51   29.05   39.34	22	8.64	9.54	10.98	12.34	14.04	21.34	30.81	33.92	36.78	40.29	42.80
25   10.52   11.52   13.12   14.61   16.47   24.34   34.28   37.65   40.65   44.31   46.93     26   11.16   12.20   13.84   15.38   17.29   25.34   35.56   38.89   41.92   45.64   48.29     27   11.81   12.88   14.57   16.15   18.11   26.34   36.74   40.11   43.19   46.96   49.65     28   12.46   13.57   15.31   16.93   18.94   27.34   37.92   41.34   44.46   48.28   50.99     29   13.12   14.26   16.05   17.71   19.77   28.34   39.09   42.56   45.72   49.59   52.34     30   13.79   14.95   16.79   18.49   20.60   29.34   40.26   43.77   46.98   50.89   53.67     40   20.71   22.16   24.43   26.51   29.05   39.34   51.81   55.76   59.34   63.69   66.77     50   27.99   29.71   32.36   34.76   37.69   49.33	23	9.26	10.20	11.69	13.09	14.85	22.34	32.01	35.17	38.08	41.64	44.18
26   11.16   12.20   13.84   15.38   17.29   25.34   35.56   38.89   41.92   45.64   48.29     27   11.81   12.88   14.57   16.15   18.11   26.34   36.74   40.11   43.19   46.96   49.65     28   12.46   13.57   15.31   16.93   18.94   27.34   37.92   41.34   44.46   48.28   50.99     29   13.12   14.26   16.05   17.71   19.77   28.34   39.09   42.56   45.72   49.59   52.34     30   13.79   14.95   16.79   18.49   20.60   29.34   40.26   43.77   46.98   50.89   53.67     40   20.71   22.16   24.43   26.51   29.05   39.34   51.81   55.76   59.34   63.69   66.77     50   27.99   29.71   32.36   34.76   37.69   49.33   63.17   67.50   71.42   76.15   79.49     60   35.53   37.48   40.48   43.19   46.46   59.33	24	9.89	10.86	12.40	13.85	15.66	23.34	33.20	36.42	39.36	42.98	45.56
27   11.81   12.88   14.57   16.15   18.11   26.34   36.74   40.11   43.19   46.96   49.65     28   12.46   13.57   15.31   16.93   18.94   27.34   37.92   41.34   44.46   48.28   50.99     29   13.12   14.26   16.05   17.71   19.77   28.34   39.09   42.56   45.72   49.59   52.34     30   13.79   14.95   16.79   18.49   20.60   29.34   40.26   43.77   46.98   50.89   53.67     40   20.71   22.16   24.43   26.51   29.05   39.34   51.81   55.76   59.34   63.69   66.77     50   27.99   29.71   32.36   34.76   37.69   49.33   63.17   67.50   71.42   76.15   79.49     60   35.53   37.48   40.48   43.19   46.46   59.33   74.40   79.08   83.30   88.38   91.95     70   43.28   45.44   48.76   51.74   55.33   69.33	25	10.52	11.52	13.12	14.61	16.47	24.34	34.28	37.65	40.65	44.31	46.93
28   12.46   13.57   15.31   16.93   18.94   27.34   37.92   41.34   44.46   48.28   50.99     29   13.12   14.26   16.05   17.71   19.77   28.34   39.09   42.56   45.72   49.59   52.34     30   13.79   14.95   16.79   18.49   20.60   29.34   40.26   43.77   46.98   50.89   53.67     40   20.71   22.16   24.43   26.51   29.05   39.34   51.81   55.76   59.34   63.69   66.77     50   27.99   29.71   32.36   34.76   37.69   49.33   63.17   67.50   71.42   76.15   79.49     60   35.53   37.48   40.48   43.19   46.46   59.33   74.40   79.08   83.30   88.38   91.95     70   43.28   45.44   48.76   51.74   55.33   69.33   85.53   90.53   95.02   100.42   104.22     80   51.17   53.54   57.15   60.39   64.28   79.33	26	11.16	12.20	13.84	15.38	17.29	25.34	35.56	38.89	41.92	45.64	48.29
29   13.12   14.26   16.05   17.71   19.77   28.34   39.09   42.56   45.72   49.59   52.34     30   13.79   14.95   16.79   18.49   20.60   29.34   40.26   43.77   46.98   50.89   53.67     40   20.71   22.16   24.43   26.51   29.05   39.34   51.81   55.76   59.34   63.69   66.77     50   27.99   29.71   32.36   34.76   37.69   49.33   63.17   67.50   71.42   76.15   79.49     60   35.53   37.48   40.48   43.19   46.46   59.33   74.40   79.08   83.30   88.38   91.95     70   43.28   45.44   48.76   51.74   55.33   69.33   85.53   90.53   95.02   100.42   104.22     80   51.17   53.54   57.15   60.39   64.28   79.33   96.58   101.88   106.63   112.33   116.32     90   59.20   61.75   65.65   69.13   73.29   89.33	27	11.81	12.88	14.57	16.15	18.11	26.34	36.74	40.11	43.19	46.96	49.65
30 13.79 14.95 16.79 18.49 20.60 29.34 40.26 43.77 46.98 50.89 53.67   40 20.71 22.16 24.43 26.51 29.05 39.34 51.81 55.76 59.34 63.69 66.77   50 27.99 29.71 32.36 34.76 37.69 49.33 63.17 67.50 71.42 76.15 79.49   60 35.53 37.48 40.48 43.19 46.46 59.33 74.40 79.08 83.30 88.38 91.95   70 43.28 45.44 48.76 51.74 55.33 69.33 85.53 90.53 95.02 100.42 104.22   80 51.17 53.54 57.15 60.39 64.28 79.33 96.58 101.88 106.63 112.33 116.32   90 59.20 61.75 65.65 69.13 73.29 89.33 107.57 113.14 118.14 124.12 128.30	28	12.46	13.57	15.31	16.93	18.94	27.34	37.92	41.34	44.46	48.28	50.99
40   20.71   22.16   24.43   26.51   29.05   39.34   51.81   55.76   59.34   63.69   66.77     50   27.99   29.71   32.36   34.76   37.69   49.33   63.17   67.50   71.42   76.15   79.49     60   35.53   37.48   40.48   43.19   46.46   59.33   74.40   79.08   83.30   88.38   91.95     70   43.28   45.44   48.76   51.74   55.33   69.33   85.53   90.53   95.02   100.42   104.22     80   51.17   53.54   57.15   60.39   64.28   79.33   96.58   101.88   106.63   112.33   116.32     90   59.20   61.75   65.65   69.13   73.29   89.33   107.57   113.14   118.14   124.12   128.30	29	13.12	14.26	16.05	17.71	19.77	28.34	39.09	42.56	45.72	49.59	52.34
50   27.99   29.71   32.36   34.76   37.69   49.33   63.17   67.50   71.42   76.15   79.49     60   35.53   37.48   40.48   43.19   46.46   59.33   74.40   79.08   83.30   88.38   91.95     70   43.28   45.44   48.76   51.74   55.33   69.33   85.53   90.53   95.02   100.42   104.22     80   51.17   53.54   57.15   60.39   64.28   79.33   96.58   101.88   106.63   112.33   116.32     90   59.20   61.75   65.65   69.13   73.29   89.33   107.57   113.14   118.14   124.12   128.30	30	13.79	14.95	16.79	18.49	20.60	29.34	40.26	43.77	46.98	50.89	53.67
60   35.53   37.48   40.48   43.19   46.46   59.33   74.40   79.08   83.30   88.38   91.95     70   43.28   45.44   48.76   51.74   55.33   69.33   85.53   90.53   95.02   100.42   104.22     80   51.17   53.54   57.15   60.39   64.28   79.33   96.58   101.88   106.63   112.33   116.32     90   59.20   61.75   65.65   69.13   73.29   89.33   107.57   113.14   118.14   124.12   128.30	40	20.71	22.16	24.43	26.51	29.05	39.34	51.81	55.76	59.34	63.69	66.77
70   43.28   45.44   48.76   51.74   55.33   69.33   85.53   90.53   95.02   100.42   104.22     80   51.17   53.54   57.15   60.39   64.28   79.33   96.58   101.88   106.63   112.33   116.32     90   59.20   61.75   65.65   69.13   73.29   89.33   107.57   113.14   118.14   124.12   128.30	50	27.99	29.71	32.36	34.76	37.69	49.33	63.17	67.50	71.42	76.15	79.49
80 51.17 53.54 57.15 60.39 64.28 79.33 96.58 101.88 106.63 112.33 116.32   90 59.20 61.75 65.65 69.13 73.29 89.33 107.57 113.14 118.14 124.12 128.30	60	35.53	37.48	40.48	43.19	46.46	59.33	74.40	79.08	83.30	88.38	91.95
90 59.20 61.75 65.65 69.13 73.29 89.33 107.57 113.14 118.14 124.12 128.30	70	43.28	45.44	48.76	51.74	55.33	69.33	85.53	90.53	95.02	100.42	104.22
	80	51.17	53.54	57.15	60.39	64.28	79.33	96.58	101.88	106.63	112.33	116.32
100 67.33 70.06 74.22 77.93 82.36 99.33 118.50 124.34 129.56 135.81 140.17	90	59.20	61.75	65.65	69.13	73.29	89.33	107.57	113.14	118.14	124.12	128.30
7.72 02.00 7.12 1.00 12.10 12.10 12.101 13.101	100	67.33	70.06	74.22	77.93	82.36	99.33	118.50	124.34	129.56	135.81	140.17