```
DD[n_{k}] := Sum[DD[Floor[n/j], k-1], {j, 2, n}]
DD[n_{-}, 0] := 1
PI[n_] := Sum[(-1)^(k+1)/kDD[n,k], \{k, 1, Log[n]/Log[2]\}]
PI[100]
428
15
PI[n_{,k_{j}} := Sum[1/k-PI[Floor[n/j],k+1],{j,2,n}]
PI[n_] := PI[n, 1]
PI[100]
428
{\tt PI[n\_, j\_, k\_] := 1/k - PI[Floor[n/j], Floor[n/j], k+1] + PI[n, j-1, k]}
PI[n_, 1, k_] := 0
PI[n_] := PI[n, n, 1]
PI[96]
413
15
Kappa[n_] := N[MangoldtLambda[n] / Log[n]]
F[n_{,k_{j}}] := Sum[Kappa[j](1/(k!) + F[Floor[n/j], k+1]), {j, 2, n}]
F[n_{-}] := F[n, 1]
F[108]
107.
Kappa[6]
0.
Kappa[n_] := N[MangoldtLambda[n] / Log[n]]
F[n_{j}, j_{k}] := Kappa[j] (1/(k!) + F[Floor[n/j], k+1]) + F[n, j-1, k]
F[n_{-}, 1, k_{-}] := 0
F[n_{-}] := F[n, n, 1]
F[107]
DivisorSum[ 20, f, PrimeQ]
f[2] + f[5]
PrimeQ[7]
True
DivisorSum[n, Sin[Pi #1 / 2] &]
- SquaresR[2, n]
Divisors[300]
{1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 25, 30, 50, 60, 75, 100, 150, 300}
```

```
Sum[j, {j, Divisors[10]}]
18
Divisors[10]
{1, 2, 5, 10}
dp[n_{,k_{|}}] := Sum[dp[j,k-1]dp[n/j,1], {j, Divisors[n]}]
dp[n_{-}, 1] := If[n < 2, 0, 1]
\texttt{Kappa}[n_{\_}] := \texttt{Sum}[ (-1) \land (k+1) / k \, dp[n, k], \{k, 1, \, N[Log[n] / Log[2]] \}]
Kappa[12]
DD[8, 2]
Table[Kappa[j], {j, 2, 21}]
\left\{1, 1, \frac{1}{2}, 1, 0, 1, \frac{1}{3}, \frac{1}{2}, 0, 1, 0, 1, 0, 0, \frac{1}{4}, 1, 0, 1, 0, 0\right\}
pd[n_{, k_{, j}} := Sum[pd[j, k-1]pd[n/j, 1], {j, Divisors[n]}]
pd[n_, 1] := Kappa[n]
InvKappa[n_] := Sum[1/(k!)pd[n,k], {k, 1, N[Log[n]/Log[2]]}]
Kappa2[9]
1
Table[InvKappa[n], \{n, 2, 21\}]
InvKappa[1]
{\tt PI[n_] := Sum[1/k\,PrimePi[Floor[n^{(1/k)]}], \{k, 1, N[Log[n]/Log[2]]\}]}
\mathtt{PP}[\mathtt{n}] := \mathtt{Sum}[\mathtt{MoebiusMu}[\mathtt{k}] \ 1 \ / \ \mathtt{kPI}[\mathtt{Floor}[\mathtt{n}^{(1/\mathtt{k})}]], \ \{\mathtt{k}, 1, \mathtt{N}[\mathtt{Log}[\mathtt{n}] \ / \ \mathtt{Log}[2]]\}]
FactorInteger[9000]
\{\{2, 3\}, \{3, 2\}, \{5, 3\}\}
Product[j, {j, FactorInteger[9000]}]
{30, 18}
Length[FactorInteger[9000]]
FactorInteger[9000][[2]][[1]]
3
DDD[n_, z_] :=
 1 / z Product[1 / (FactorInteger[n][[j]][[2]]!) Pochhammer[z, FactorInteger[n][[j]][[2]]],
    {j, 1, Length[FactorInteger[n]]}]
```

```
PI2[n_{]} := N[Sum[DDD[j, 10^{(-120)}], {j, 2, n}]]
PI2[100]
28.5333
Table[Round[N[DDD[n, 10^-120]], .0000001], {n, 2, 100}]
 {1., 1., 0.5, 1., 0., 1., 0.333333, 0.5, 0., 1., 0., 1., 0., 0., 0., 0.25, 1., 0., 1.,
  0., 0., 0., 1., 0., 0.5, 0., 0.333333, 0., 1., 0., 1., 0.2, 0., 0., 0., 0., 1., 0.,
  0., 0., 1., 0., 1., 0., 0., 0., 1., 0., 0.5, 0., 0., 0., 1., 0., 0., 0., 0., 0., 1.,
   0.,\,1.,\,0.,\,0.,\,0.166667,\,0.,\,0.,\,1.,\,0.,\,0.,\,1.,\,0.,\,1.,\,0.,\,1.,\,0.,\,0.,\,0.,\,0.,\,0.,\,1.,
  0., 0.25, 0., 1., 0., 0., 0., 0., 0., 1., 0., 0., 0., 0., 0., 0., 0., 1., 0., 0., 0.}
FactInteger[n_] := If[n == 1, {}, FactorInteger[n]]
\mathtt{dd}[\texttt{n}\_, \texttt{z}\_] := \mathtt{Product}[\texttt{1}/(\texttt{j}[[2]]!) \ \mathtt{Pochhammer}[\texttt{z}, \texttt{j}[[2]]], \ \{\texttt{j}, \mathtt{FactInteger}[\texttt{n}]\}]
Dd[101, .00001]
0.00001
PrimeKappa[n_] := N[MangoldtLambda[n] / Log[n]]
FactInteger[n_] := If[n == 1, {}, FactorInteger[n]]
d[n_{,z_{]}} := Product[1/(j[[2]]!) Pochhammer[z,j[[2]]], {j, FactInteger[n]}]
Limitd[n_{,z]} := Round[N[1/zd[n,z]], .0000001]
\label{lem:table of the continuous continu
2
                 1.
                                                1.
3
                 1.
                                                1.
4
                 0.5
                                                0.5
5
                 1.
                                                1.
6
                 0.
                                                0.
7
                 1.
                                              1.
8
                 0.333333 0.333333
9
                 0.5
                                                0.5
10
                 0.
                                                0.
11
                 1.
                                                1.
12
                 0.
                                              0.
13
                 1.
                                                1.
14
                                                0.
                 0.
15
                 0.
                                                0.
16
                 0.25
                                               0.25
17
                 1.
                                                1.
18
                 0.
                                                0.
19
                 1.
                                                1.
20
                 0.
                                                0.
21
                 0.
                                                0.
22
                 0.
                                                0.
23
                 1.
                                                1.
24
                 0.
                                              0.
25
                 0.5
                                             0.5
26
                 0.
                                              0.
27
                 0.333333
                                               0.333333
28
                 0.
                                               0.
29
                 1.
                                                1.
30
                 0.
                                                0.
31
                 1.
                                                1.
32
                 0.2
                                               0.2
33
                                                0.
```

0.

34	0.	0.
35	0.	0.
36	0.	0.
37	1.	1.
38	0.	0.
		0.
39	0.	
40	0.	0.
41	1.	1.
42	0.	0.
43	1.	1.
44	0.	0.
45	0.	0.
46	0.	0.
47	1.	1.
48	0.	0.
49	0.5	0.5
50	0.	0.
51	0.	0.
52	0.	0.
53	1.	1.
54	0.	0.
55	0.	0.
56	0.	0.
57	0.	0.
58	0.	0.
59	1.	1.
60	0.	0.
61	1.	1.
62	0.	0.
63	0.	0.
64	0.166667	0.16666
65	0.	0.
66	0.	0.
67	1.	1.
68	0.	0.
69	0.	0.
70	0.	0.
71	1.	1.
72	0.	0.
73	1.	1.
74	0.	0.
75	0.	0.
76	0.	0.
77	0.	0.
78	0.	0.
		1.
79	1.	
80	0.	0.
81	0.25	0.25
82	0.	0.
83	1.	1.
84	0.	0.
85	0.	0.
86	0.	0.
87	0.	0.
88	0.	0.
89	1.	1.

```
90
       0.
                    0.
91
       0.
                    0.
92
                    0.
       0.
93
       0.
                   0.
94
       0.
                   0.
95
       0.
                    0.
96
       0.
                    0.
97
                    1.
       1.
98
       0.
                    0.
99
       0.
                    0.
100
                    0.
       0.
PI[n_] := N[Sum[Dd[j, 10^(-120)], {j, 2, n}]]
PI2[100]
28.5333
\mathtt{Dd}[\mathtt{n}_{-},\mathtt{z}_{-}] := \mathtt{Product}[1 \, / \, (\mathtt{a}[[2]] \, !) \, \mathtt{Pochhammer}[\mathtt{z},\mathtt{a}[[2]]] \, , \, \{\mathtt{a},\mathtt{FactorInteger}[\mathtt{n}]\}]
Dd[102, .00000001]
1. \times 10^{-27}
Round[.00000000001, .000000001]
0.
\label{eq:rimePi} Riemann Prime Counting [n_] := Sum [Prime Pi[n^(1/j)]/j, \{j, 1, N[Log[n]/Log[2]]\}]
FactInteger[n_] := If[n == 1, {}, FactorInteger[n]]
d[n_{-},z_{-}] := Product[1/(j[[2]]!) Pochhammer[z,j[[2]]], {j, FactInteger[n]}]
DD[n_{z}] := Sum[d[j, z], {j, 1, n}]
LimitD[n_{,z]} := 1/z (DD[n,z]-1)
Table[{n, N[LimitD[n, 10^(-120)]], N[RiemannPrimeCounting[n]]}, {n, 1, 100}] //
 TableForm
1
       0.
                   0.
2
                   1.
       1.
3
       2.
                   2.
4
       2.5
                   2.5
5
       3.5
                  3.5
6
      3.5
                   3.5
7
      4.5
                  4.5
       4.83333
8
                   4.83333
9
       5.33333
                   5.33333
10
       5.33333
                 5.33333
11
      6.33333 6.33333
12
       6.33333
                   6.33333
13
       7.33333
                   7.33333
       7.33333
                   7.33333
14
15
       7.33333
                   7.33333
16
       7.58333
                   7.58333
17
       8.58333 8.58333
18
       8.58333 8.58333
19
       9.58333
                   9.58333
20
       9.58333
                   9.58333
21
       9.58333
                   9.58333
22
       9.58333
                  9.58333
```

23	10.5833	10.5833
24	10.5833	10.5833
25	11.0833	11.0833
26	11.0833	11.0833
27	11.4167	11.4167
28	11.4167	11.4167
29	12.4167	12.4167
30	12.4167	12.4167
31	13.4167	13.4167
32	13.6167	13.6167
33	13.6167	13.6167
34	13.6167	13.6167
35	13.6167	13.6167
36	13.6167	13.6167
37	14.6167	14.6167
38	14.6167	14.6167
39	14.6167	14.6167
40	14.6167	14.6167
41	15.6167	15.6167
42	15.6167	15.6167
43	16.6167	16.6167
44	16.6167	16.6167
45	16.6167	16.6167
46	16.6167	16.6167
47	17.6167	17.6167
48	17.6167	17.6167
49	18.1167	18.1167
50	18.1167	18.1167
51	18.1167	18.1167
52	18.1167	18.1167
53	19.1167	19.1167
54	19.1167	19.1167
55	19.1167	19.1167
56	19.1167	19.1167
57	19.1167	19.1167
58	19.1167	19.1167
59	20.1167	20.1167
60	20.1167	20.1167
61	21.1167	21.1167
62	21.1167	21.1167
63	21.1167	21.1167
64	21.2833	21.2833
65	21.2833	21.2833
66	21.2833	21.2833
67	22.2833	22.2833
68	22.2833	22.2833
69	22.2833	22.2833
70	22.2833	22.2833
71	23.2833	23.2833
72	23.2833	23.2833
73	24.2833	24.2833
74	24.2833	24.2833
75	24.2833	24.2833
76	24.2833	24.2833
77	24.2833	24.2833
78	24.2833	24.2833

```
79
                         25.2833
                                                                 25.2833
                                                                25.2833
80
                        25.2833
                        25.5333
                                                                 25.5333
 81
 82
                        25.5333
                                                                 25.5333
83
                        26.5333
                                                                 26.5333
                         26.5333
 84
                                                                 26.5333
 85
                        26.5333
                                                                 26.5333
                        26.5333
 86
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87
                        26.5333
                                                                 26.5333
88
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                                                                 26.5333
                        27.5333
                                                                 27.5333
89
90
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91
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92
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93
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94
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95
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                                                                 27.5333
 96
                        27.5333
                                                                 27.5333
97
                        28.5333
                                                                 28.5333
98
                        28.5333
                                                                28.5333
 99
                        28.5333
                                                                 28.5333
100
                        28.5333
                                                                 28.5333
Dd[1, 4]
FactInteger[1]
 {}
\label{eq:rimePi} {\tt RiemannPrimeCounting[n\_] := Sum[PrimePi[n^(1/j)]/j, {j, 1, N[Log[n]/Log[2]]})} \\
DD[n_{k}] := Sum[DD[Floor[n/j], k-1], {j, 2, n}]
DD[n_{-}, 0] := 1
{\tt PI[n_] := Sum[(-1)^k(k+1)/kDD[n,k],\{k,1,N[Log[n]/Log[2]]\}]}
\label{lem:table of the counting of the coun
1
                        0
                                                   0
 2
                        1
                                                   1
 3
                         2
 4
                                                    \frac{7}{2}
 5
                                                   \frac{7}{2}
 6
 7
                          29
 8
                          16
3
                                                    16
3
 9
                          16
3
                                                   16
3
 10
                          19
3
 11
                          19
3
12
                                                   22
3
22
3

\begin{array}{r}
    22 \\
    \hline
    3 \\
    \hline
    22 \\
    \hline
    3
\end{array}

 13
 14
 15
```

16	91	91
17	12	12
18	12 103	12 103
19	12 115	12 115
20	12 115	12 115
	12 115	12 115
21	12 115	12 115
22	12 127	12 127
23	12	12
24	127	127
25	133	133
26	$\frac{133}{12}$	133 12
27	137	$\frac{137}{12}$
28	$\frac{137}{12}$	137
29	149	$\frac{149}{12}$
30	149	149
31	161	161
32	817	817
33	60 817	60 817
34	60 817	817
35	60 817	817
36	60 817	60 817
37	60 877	60 877
38	60 877	60 877
39	60 877	60 877
	60 877	60 877
40	60 937	60 937
41	60 937	60 937
42	60	60
43	997 60	997 60
44	997 60	997 60
45	$\frac{997}{60}$	997 60
46	997 60	997 60
47	1057 60	105
48	1057 60	105
49	1087	108
50	1087	108
51	1087	108
52	60 1087	108
53	60 1147	60 114
54	60 1147	60 114
JI	60	60

55	1147	1147
56	1147	1147
57	60 1147	1147
58	60 1147	60 1147
59	60 1207	1207
	60 1207	60 1207
60	60	60
61	1267 60	1267
62	1267 60	1267
63	1267 60	1267
64	1277 60	1277
65	1277 60	1277
66	1277	1277
67	1337	1337
68	60 1337	1337
69	60 1337	60 1337
70	60 1337	60 1337
	60 1397	60 1397
71	60 1397	60 1397
72	60	60 1457
73	1457 60	60
74	1457 60	1457
75	1457 60	1457
76	$\frac{1457}{60}$	1457
77	1457	1457
78	60 1457	1457
79	60 1517	60 1517
80	60 <u>1517</u>	60 1517
81	60 383	60 383
	15 383	15 383
82	15 398	15 398
83	15 398	15 398
84	15	15
85	398 15	398 15
86	398 15	398 15
87	398 15	398 15
88	398 15	398
89	413	413
90	15 413	15 413
91	15 413	15 413
92	15 413	15 413
	15 413	15 413
93	15	15

 $\label{eq:rimePi} \text{RiemannPrimeCounting}[n\_] := Sum[PrimePi[n^(1/j)]/j, \{j, 1, N[Log[n]/Log[2]]\}]$  $PI[n_{,k_{|}} := Sum[1/k-PI[Floor[n/j],k+1],{j,2,n}]$  $\texttt{Table}[\{\texttt{n},\, \texttt{PI}[\texttt{n},\, \texttt{1}]\,,\, \texttt{RiemannPrimeCounting}[\texttt{n}]\}\,,\, \{\texttt{n},\, \texttt{1},\, \texttt{100}\}]\,\,//\,\, \texttt{TableForm}$ 

30	149	149 12
31	161	161 12
32	817	817
33	817	817
34	817	817
35	817	817
36	817	817
37	877 60	877 60
38	877 60	877 60
39	877 60	877 60
40	877 60	877 60
41	937	937
42	937	937
43	997	997
44	997	997
45	997 60	997
46	997 60	997
47	1057 60	1057 60
48	1057 60	1057 60
49	1087 60	1087 60
50	1087 60	1087 60
51	1087 60	1087 60
52	1087 60	1087
53	1147 60	1147
54	1147 60	1147 60
55	1147 60	1147 60
56	1147 60	1147 60
57	$\frac{1147}{60}$	$\frac{1147}{60}$
58	$\frac{1147}{60}$	$\frac{1147}{60}$
59	1207 60	1207 60
60	1207 60	1207 60
61	1267 60	1267 60
62	1267 60	1267 60
63	1267 60	1267 60
64	$\frac{1277}{60}$	1277 60
65	$\frac{1277}{60}$	1277 60
66	$\frac{1277}{60}$	1277 60
67	1337 60	1337 60
68	1337 60	1337 60

```
1337
                  1337
69
         60
                   60
         1337
                  1337
70
         1397
                  1397
71
         60
                   60
         1397
                  1397
72
         60
                   60
         1457
                  1457
73
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                  1457
74
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                  1457
75
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76
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77
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         1457
                  1457
78
                   60
         1517
                  1517
79
          60
                   60
         1517
                  1517
80
         60
                   60
         383
                  383
81
         15
                   15
         383
                  383
82
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                   15
         398
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83
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84
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86
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87
         15
                  15
         398
                  398
88
         15
                  15
         \frac{413}{15}
                  413
89
                  15
         413
                  413
90
         15
                  15
         413
                  413
91
         15
                   15
92
         15
                   15
         413
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93
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         413
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94
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         413
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95
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                   15
         413
                  413
96
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                   15
         428
                  428
97
         15
                  15
         428
                  428
98
         15
                   15
         428
                  428
99
         15
                   15
100
```

```
RiemannPrimeCounting[n_] := Sum[PrimePi[n^(1/j)]/j, {j, 1, N[Log[n]/Log[2]]}]
PI[n_, j_, k_] := 1/k - PI[Floor[n/j], Floor[n/j], k+1] + PI[n, j-1, k]
PI[n_, 1, k_] := 0
```

 $\label{lem:table:lem:tab$ 

4	<u>5</u> 2	<u>5</u> 2
5 6	$\frac{7}{2}$	$\frac{7}{2}$
	$\frac{7}{2}$	$\frac{7}{2}$
7	$\frac{9}{2}$	9 2
8	<u>29</u> 6	<u>29</u> 6
9	16 3	16 3
10	16 3	16 3
11	19 3	19 3
12	19 3	<u>19</u> 3
13	<u>22</u> 3	<u>22</u> 3
14	<u>22</u> 3	<u>22</u> 3
15	<u>22</u> 3	<u>22</u> 3
16	$\frac{91}{12}$	91 12
17	103	103
18	103	103
19	115 12	115
20	115 12	115 12
21	$\frac{115}{12}$	$\frac{115}{12}$
22	$\frac{115}{12}$	$\frac{115}{12}$
23	$\frac{127}{12}$	$\frac{127}{12}$
24	$\frac{127}{12}$	$\frac{127}{12}$
25	133 12	133 12
26	133 12	133 12
27	$\frac{137}{12}$	$\frac{137}{12}$
28	$\frac{137}{12}$	$\frac{137}{12}$
29	149 12	149 12
30	$\frac{149}{12}$	149 12
31	$\frac{161}{12}$	$\frac{161}{12}$
32	817 60	817 60
33	817 60	817 60
34	817 60	817 60
35	817 60	817 60
36	817 60	817 60
37	877 60	877 60
38	877 60	877 60
39	877 60	877 60
40	877 60	877 60
41	937	937
42	937	937
	-	

43	997	997
44	60 <u>997</u>	60 997
	60 997	60 997
45	60 997	60 997
46	60	60
47	1057 60	1057
48	1057 60	1057
49	1087	1087
50	1087 60	1087
51	1087 60	1087
52	1087	1087
53	1147 60	1147
54	1147 60	1147
55	1147	1147
56	60 1147	1147
57	60 1147	60 1147
58	60 1147	60 1147
59	60 1207	60 1207
60	60 <u>1207</u>	60 1207
61	60 1267	60 1267
62	60 1267	60 1267
	60 1267	60 1267
63	60 1277	60 1277
64	60	60 1277
65	60	60
66	1277 60	1277 60
67	1337 60	1337
68	1337 60	1337
69	1337 60	1337
70	1337 60	1337
71	1397	1397
72	60 1397	1397
73	60 1457	60 1457
74	60 1457	60 1457
75	60 <u>1457</u>	60 1457
76	60 1457	60 1457
77	60 <u>1457</u>	60 1457
78	60 1457	60 1457
79	60 1517	60 1517
80	60 1517	60 1517
81	60 383	60 383
OΤ	15	15

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383
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82
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                  15
         428
                  428
99
         15
                  15
         428
                  428
100
```

 $\label{eq:primeKappa} \begin{aligned} &\text{PrimeKappa}[n_{\_}] &:= &\text{FullSimplify}[\texttt{MangoldtLambda}[n] \; / \; &\text{Log}[n]] \end{aligned}$  $\label{eq:rimeKappa} \mbox{RiemannPrimeCounting[n_] := Sum[PrimeKappa[j], \{j, 2, n\}]}$  $PI[n_{k}] := Sum[1/k - PI[Floor[n/j], k+1], {j, 2, n}]$  $\label{lem:table} \texttt{Table}[\{n,\, \texttt{PI}[n,\, 1]\,,\, \texttt{RiemannPrimeCounting}[n]\}\,,\, \{n,\, 1,\, 100\}]\,\,//\,\, \texttt{TableForm}$ 

17	103	103
18	$\frac{103}{12}$	$\frac{103}{12}$
19	$\frac{115}{12}$	115 12
20	$\frac{115}{12}$	$\frac{115}{12}$
21	115	115
22	12 115	12 115
23	12	12
24	12 127	12 127
25	12 133 12	$\frac{12}{133}$
26	$\frac{12}{133}$	$\frac{133}{12}$
27	137	$\frac{137}{12}$
28	137	137
29	149	$\frac{149}{12}$
30	149	$\frac{149}{12}$
31	161 12	161 12
32	817 60	817 60
33	817 60	$\frac{817}{60}$
34	817 60	817 60
35	817 60	817 60
36	817 60	817 60
37	877 60	877 60
38	877 60	877 60
39	877 60	877 60
40	877 60	877 60
41	937 60	937 60
42	937 60	937 60
43	997 60	997 60
44	997 60	997 60
45	997 60	997 60
46	997 60	997 60
47	1057 60	$\frac{1057}{60}$
48	$\frac{1057}{60}$	$\frac{1057}{60}$
49	1087 60	$\frac{1087}{60}$
50	1087 60	$\frac{1087}{60}$
51	60	1087
52	1087	1087 60
53	60	1147
54	1147 60	1147 60
55	1147 60	$\frac{1147}{60}$

56	1147	1147
57	1147 60	$\frac{1147}{60}$
58	1147	1147
59	1207	60 1207
60	60 1207	60 1207
61	60 1267	60 1267
62	60 1267	60 1267
	60 1267	60 1267
63	60 1277	60 1277
64	60 1277	60 1277
65	60 1277	60 1277
66	60	60
67	60	1337
68	$\frac{1337}{60}$	$\frac{1337}{60}$
69	1337 60	1337 60
70	1337 60	1337 60
71	1397 60	1397 60
72	1397 60	1397 60
73	1457 60	$\frac{1457}{60}$
74	1457 60	1457 60
75	1457 60	1457 60
76	1457	1457
77	60 1457	60 1457
78	60 1457	60 <u>1457</u>
79	60 1517	60 <u>1517</u>
80	60 1517	60 1517
81	60 383	60 <u>383</u>
82	15 383	15 383
83	15 398	15 398
	15 398	15 398
84	15 398	15 398
85	15 398	15 398
86	15 398	15 398
87	15 398	15 398
88	15	15
89	413 15	413 15
90	413 15	$\frac{413}{15}$
91	413 15	413 15
92	413 15	413 15
93	413 15	413 15
94	413 15	413 15

95	413	413
93	15	15
96	413	413
90	15	15
97	428	428
91	15	15
98	428	428
90	15	15
99	428	428
	15	15
100	428	428
100	15	15