```
StrictDivisorsHyperbola[A_, k_, n_, s_] :=
 Sum[((m^A)^(k-j)) Binomial[k, j] StrictDivisorsHyperbola[A, j, n/(m^(k-j)), m+1],
  {m, s, n^{(1/k)}, {j, 0, k-1}}
StrictDivisorsHyperbola[A_, 0, n_, s_] := 1
SumPrimesHyperbola[A_, n_] :=
 Sum[(-1)^{(k+1)}/(jk) MoebiusMu[j] StrictDivisorsHyperbola[jA,k,n^(1/j),2],
  {j, 1, Log[2, n]}, {k, 1, Log[2, (n^(1/j))]}
Smalld[A_{,k_{,n_{,j}}} := StrictDivisorsHyperbola[A, k, n, 2] -
  StrictDivisorsHyperbola[A, k, n-1, 2]
StrictDivisorsReduced[a_, A_, k_, n_] :=
 Sum[Smalld[A, 1, j] StrictDivisors[A, k-1, n/j], {j, a+1, n}] +
  Sum[Smalld[A, k-1, j] StrictDivisors[A, 1, n/j], {j, 2, a}] +
  Sum[Smalld[A, 1, s] Smalld[A, m, j] StrictDivisors[A, k-m-1, n/(js)],
   {j, 2, a}, {s, Floor[a/j] + 1, n/j}, {m, 1, k-2}
{\tt StrictDivisorsReduced[a\_, A\_, 1, n\_] := Sum[j^A, \{j, 2, n\}]}
SumPrimesReduced[A_, n_] := Sum[
   (-1)^{(k+1)}/(jk) MoebiusMu[j] StrictDivisorsReduced[Floor[n^{(1/3)}], jA, k, n^{(1/j)}],
  {j, 1, Log[2, n]}, {k, 1, Log[2, (n^(1/j))]}
StrictDivisorsFullReduced[A_, k_, n_] :=
 Sum[j^AStrictDivisorsHyperbola[A, k-1, n/j, 2], {j, Floor[n^(1/3)]+1, n^(1/2)}] + \\
   \begin{aligned} & \text{Sum}[\text{Sum}[\text{m}^{A}, \{\text{m, Floor}[\text{n} / (j+1)] + 1, \text{n} / j\}] \text{ StrictDivisorsHyperbola}[\text{A, k-1, j, 2}], \end{aligned} 
   {j, 1, n/Floor[n^{(1/2)} - 1}] +
  Sum[Smalld[A, k-1, j] Sum[m^A, \{m, 2, n/j\}], \{j, 2, n^{(1/3)}\}] +
  Sum[s^ASmalld[A, m, j] \ StrictDivisorsHyperbola[A, k-m-1, n/(js), 2],
   {j, 2, n^{(1/3)}}, {s, Floor[Floor[n^{(1/3)}] / j] + 1, Floor[n/j]^{(1/2)}}, {m, 1, k-2}] +
  Sum[(Sum[m^A, \{m, Floor[n/(j(s+1))]+1, n/(js)\}])
     (Sum[Smalld[A, m, j] StrictDivisorsHyperbola[A, k-m-1, s, 2], \{m, 1, k-2\}])
   \label{eq:condition} \begin{subarray}{ll} \{j,\,2,\,n^{\,\prime}\,(1\,/\,3)\},\,\{s,\,1,\,{\tt Floor}\,[\,n\,/\,j\,]\,\,{\tt /}\,{\tt Floor}\,[\,{\tt Floor}\,[\,n\,/\,j\,]\,\,{\tt /}\,\,(\,1\,/\,2)\,]\,\,-\,1\} \end{subarray}
StrictDivisorsFullReduced[A_, 1, n_] := Sum[j^A, {j, 2, n}]
SumPrimesFullReduced[A_, n_] :=
 Sum[(-1)^{(k+1)}/(jk) MoebiusMu[j] StrictDivisorsFullReduced[jA,k,n^(1/j)],
  {j, 1, Log[2, n]}, {k, 1, Log[2, (n^(1/j))]}
SumPrimesFullReduced[1, 100]
```

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