```
FF[n_] := Sum[1, \{a, 2, n^{(1/3)}\}, \{b, a+1, (n/a)^{(1/2)}\}, \{c, b+1, n/(ab)\}]
FF[100]
33
FG[n_{-}] := Sum[1, \{a, 2, n^{(1/3)}\}, \{b, a+1, (n/a)^{(1/2)}\}, \{c, 2, n/(ab)\}] -
  Sum[1, \{a, 2, n^{(1/3)}\}, \{b, a+1, (n/a)^{(1/2)}\}, \{c, 2, b\}]
FG[100]
33
FH[n_] := Sum[1, \{a, 2, n^{(1/3)}\}, \{b, 2, (n/a)^{(1/2)}\}, \{c, 2, n/(ab)\}] -
  Sum[1, \{a, 2, n^{(1/3)}\}, \{b, 2, a\}, \{c, 2, n/(ab)\}] -
  Sum[1, \{a, 2, n^{(1/3)}\}, \{b, a+1, (n/a)^{(1/2)}\}, \{c, 2, b\}]
FH[100]
33
FI[n] := Sum[1, {a, 2, n^(1/3)}, {b, 2, (n/a)^(1/2)}, {c, 2, n/(ab)}] -
  Sum[1, \{a, 2, n^{(1/3)}\}, \{b, 2, a\}, \{c, 2, n/(ab)\}] -
  Sum[1, \{a, 2, n^{(1/3)}\}, \{b, 2, (n/a)^{(1/2)}\}, \{c, 2, b\}] +
  Sum[1, \{a, 2, n^{(1/3)}\}, \{b, 2, a\}, \{c, 2, b\}]
FI[100]
33
FF[11111]
43 379
FI[11111]
43 379
FJ[n_{-}] := Sum[1, \{a, 2, n^{(1/3)}\}, \{b, 2, (n/a)^{(1/2)}\}, \{c, 1, n/(ab)\}] -
  Sum[1, \{a, 2, n^{(1/3)}\}, \{b, 2, a\}, \{c, 1, n/(ab)\}] -
  Sum[1, \{a, 2, n^{(1/3)}, \{b, 2, (n/a)^{(1/2)}, \{c, 1, b\}] +
  Sum[1, \{a, 2, n^{(1/3)}\}, \{b, 2, a\}, \{c, 1, b\}]
FJ[11111]
43 379
FK[n_] := Sum[Floor[n/(ab)], {a, 2, n^(1/3)}, {b, 2, (n/a)^(1/2)}] -
  Sum[Floor[n/(ab)], \{a, 2, n^{(1/3)}, \{b, 2, a\}] -
  FK[11111]
43 379
FM[n] := Sum[Floor[n/(ab)], {a, 2, n^(1/3)}, {b, 1, (n/a)^(1/2)}] -
  Sum[Floor[n/(ab)], \{a, 2, n^{(1/3)}, \{b, 1, a\}] -
  FM[11111]
43 379
Sum[b, {a, 2, Floor[n^{(1/3)}]}, {b, 1, a}]
\frac{1}{2} \left( -6 + 2 \operatorname{Floor}\left[n^{1/3}\right] + 3 \operatorname{Floor}\left[n^{1/3}\right]^2 + \operatorname{Floor}\left[n^{1/3}\right]^3 \right)
```

 $Sum[b, {a, 2, n^{(1/3)}}, {b, 1, Floor[(n/a)^{(1/2)}}]$

$$\sum_{a=2}^{\text{Floor}\left[n^{1/3}\right]} \sqrt{\frac{n}{a}} \ b$$

 $Sum[b, \{b, 1, Floor[(n/a)^(1/2)]\}]$

$$\frac{1}{2}\operatorname{Floor}\left[\sqrt{\frac{n}{a}}\right]\left(1+\operatorname{Floor}\left[\sqrt{\frac{n}{a}}\right]\right)$$

$$\operatorname{Sum}\left[\frac{1}{2}\operatorname{Floor}\left[\sqrt{\frac{n}{a}}\right]\left(1+\operatorname{Floor}\left[\sqrt{\frac{n}{a}}\right]\right), \{a, 2, n^{(1/3)}\}\right]$$

 $FN[n_] := Sum[Floor[n/(ab)], \{a, 2, n^(1/3)\}, \{b, 1, (n/a)^(1/2)\}] - Sum[Floor[n/(ab)], \{a, 2, n^(1/3)\}, \{b, 1, a\}] -$

$$\operatorname{Sum}\left[\frac{1}{2}\operatorname{Floor}\left[\sqrt{\frac{n}{a}}\right]\left(1+\operatorname{Floor}\left[\sqrt{\frac{n}{a}}\right]\right),\ \left\{a,\,2,\,n^{\,\wedge}\,(1\,/\,3)\,\right\}\right]+$$

$$\frac{1}{6} \left(-6 + 2 \operatorname{Floor} \left[n^{1/3} \right] + 3 \operatorname{Floor} \left[n^{1/3} \right]^{2} + \operatorname{Floor} \left[n^{1/3} \right]^{3} \right)$$

FN[11111]

43 379

FF[11111]

43 379

FF[123 321]

888 539

FN[123 321]

888 539