

$$d = 16$$

$$\Phi_{\mathbb{Q}}(16) \supseteq \left\{ \begin{array}{l} (3), (4), (5), (6), (7), (8), (9), (10), (12), (13), (15), (16), (17), (20), (21), (24), (30), (32), (40), (48), \\ (2, 2), (2, 4), (2, 6), (2, 8), (2, 10), (2, 12), (2, 16), (2, 20), (2, 24), (2, 30), (2, 32), (3, 3), (3, 6), (3, 12), (3, 15), \\ (4, 4), (4, 8), (4, 12), (4, 16), (4, 20), (5, 5), (5, 15), (6, 6), (6, 12), (8, 8) \end{array} \right\}$$

G	$\Phi_{\mathbb{Q}}(16, G) \setminus \{G\} \supseteq$
()	$\{(3), (5), (7), (9), (13), (15), (17), (21), (3, 3), (3, 15), (5, 5), (5, 15)\}$
(2)	$\left\{ \begin{array}{l} (4), (6), (8), (10), (12), (16), (20), (24), (30), (32), (40), (48), (2, 2), (2, 4), (2, 6), (2, 8), (2, 10), (2, 12), (2, 16), (2, 20), (2, 24), (2, 30), (2, 32), \\ (3, 6), (3, 12), (4, 4), (4, 8), (4, 12), (4, 16), (4, 20), (6, 6), (6, 12), (8, 8) \end{array} \right\}$
(3)	$\{(15), (3, 3), (5, 15)\}$
(4)	$\{(8), (12), (16), (20), (24), (32), (40), (48), (2, 4), (2, 8), (2, 12), (2, 16), (2, 20), (2, 24), (2, 32), (3, 12), (4, 4), (4, 8), (4, 12), (4, 16), (4, 20), (6, 12), (8, 8)\}$
(5)	$\{(15), (5, 5)\}$
(6)	$\{(12), (24), (48), (2, 6), (2, 12), (2, 24), (3, 6), (3, 12), (4, 12), (6, 6), (6, 12)\}$
(7)	$\{(21)\}$
(8)	$\{(16), (24), (32), (48), (2, 8), (2, 16), (2, 24), (2, 32), (4, 8), (4, 16), (8, 8)\}$
(9)	$\{\}$
(10)	$\{(20), (30), (40), (2, 10), (2, 20), (2, 30)\}$
(12)	$\{(24), (48), (2, 12), (2, 24), (4, 12)\}$
(2, 2)	$\{(2, 4), (2, 6), (2, 8), (2, 10), (2, 12), (2, 16), (2, 20), (2, 24), (2, 32), (4, 4), (4, 8), (4, 12), (4, 16), (4, 20), (6, 6), (6, 12), (8, 8)\}$
(2, 4)	$\{(2, 8), (2, 12), (2, 16), (2, 24), (2, 32), (4, 4), (4, 8), (4, 12), (4, 16), (8, 8)\}$
(2, 6)	$\{(2, 12), (2, 24), (4, 12)\}$
(2, 8)	$\{(2, 16), (2, 24), (2, 32), (4, 8), (4, 16), (8, 8)\}$

$$h_{\mathbb{Q}}(16) = 25$$

Number of configurations: 480

Maximun conductor to obtain all the configurations: 277440

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
()	(3)	19a2
()	(9)	54a2
()	(3), (3, 3)	245a1
()	(3), (5)	11a2
()	(3), (13)	2890d1
()	(3), (15)	50b3
()	(3), (17)	14450n1
()	$(3)^2, (3, 3)$	175b2
()	(3), (5), (3, 3)	1369e2
()	$(3), (5)^2$	608b1
()	(3), (5), (5, 5)	6975a1
()	(3), (5), (5, 15)	225a2
()	(3), (5), (15)	50a2
()	(3), (7), (21)	208d1
()	(3), (15), (5, 15)	225a1
()	$(3), (5)^2, (3, 3)$	361a1
()	$(3), (5)^2, (5, 5)$	18176b2
()	(3), (5), (15), (3, 3)	1369e1
()	(3), (5), (15), (5, 5)	275b2
()	$(3), (5)^2, (15), (5, 5)$	99d2
()	$(3)^2, (5)^2, (15), (3, 3)$	121b1
()	$(3)^2, (5), (15), (3, 3), (3, 15)$	338d1
()	$(3)^2, (5), (15)^2, (3, 3)$	338d2
(2)	(4), (8), (2, 6), (4, 12)	36a3
(2)	(4), (8), (2, 6), $(2, 12)^2$	84a3
(2)	(4), (2, 6), $(2, 12)^2, (2, 24), (4, 12)$	144a4
(2)	(4), (6), (8), (2, 2), (2, 6), (4, 4)	128b1
(2)	(4), (6), (8), (2, 2), (2, 6), (4, 12)	144a1
(2)	(4), (8), (2, 6), $(2, 12)^2, (4, 12)$	80b1
(2)	(4), (8), (2, 6), (2, 12), (2, 24), (4, 12)	1040g2
(2)	(6), (12), (24), (2, 2), (2, 6), (4, 12)	144a3
(2)	(4), (6), (8), (2, 2), $(2, 4)^2, (2, 6)$	46a1
(2)	(4), (6), (8), (2, 2), $(2, 4)^2, (6, 6)$	6727a2
(2)	(4), (6), (8), (2, 10), $(2, 20)^2, (2, 30)$	450a3
(2)	(4), (8), (2, 2), $(2, 4)^2, (2, 6), (6, 6)$	2205a2
(2)	(6), (2, 2), $(2, 4)^2, (2, 6), (2, 8), (4, 4)$	1792a1
(2)	(6), (2, 2), $(2, 4)^2, (2, 6), (2, 8), (4, 8)$	200b1

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2)	$(2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 12), (4, 4), (6, 6)$	223494n1
(2)	$(4), (6), (2, 2), (2, 4)^2, (2, 6), (2, 8), (4, 4)$	128b2
(2)	$(4), (6), (2, 2), (2, 4), (2, 6), (2, 12), (2, 24), (4, 12)$	144a2
(2)	$(4), (6), (8), (2, 2), (2, 4)^2, (2, 6), (3, 6)$	1568d1
(2)	$(4), (6), (8), (2, 2), (2, 4)^2, (2, 6), (4, 4)$	52a1
(2)	$(4), (6), (8), (2, 2), (2, 4), (2, 6), (2, 8), (4, 4)$	128a1
(2)	$(4), (6), (8), (2, 2), (2, 4), (2, 6), (2, 12)^2$	2352t3
(2)	$(4), (6), (8), (2, 2), (2, 4), (2, 6), (2, 12), (4, 12)$	400e1
(2)	$(4), (6), (8), (2, 2), (2, 4), (2, 6), (4, 4), (4, 8)$	768a2
(2)	$(4), (6), (8)^2, (2, 2), (2, 6), (4, 4), (4, 8)$	16810b2
(2)	$(4), (6), (8), (12), (2, 2), (2, 4)^2, (6, 6)$	4107a1
(2)	$(4), (6), (8), (12), (2, 2), (2, 6), (4, 4), (4, 12)$	576a3
(2)	$(4), (6), (12), (24), (2, 2), (2, 6), (4, 4), (4, 12)$	576a1
(2)	$(4), (8), (2, 2), (2, 4)^2, (2, 6), (4, 4), (6, 6)$	173280f2
(2)	$(6), (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (4, 4)$	200b2
(2)	$(6), (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 16), (4, 8)$	3362a1
(2)	$(6), (2, 2), (2, 4)^2, (2, 6), (2, 8), (3, 6), (4, 4)$	4225j1
(2)	$(6), (12), (2, 2), (2, 4), (2, 6), (2, 12), (2, 24), (4, 12)$	36a4
(2)	$(6), (12), (24), (2, 2), (2, 4), (2, 6), (2, 12)^2$	84a4
(2)	$(6), (12), (24), (2, 2), (2, 4), (2, 6), (2, 12), (4, 12)$	80b2
(2)	$(4)^2, (8), (2, 6), (2, 12)^2, (2, 24)^2, (4, 12)$	14400bo8
(2)	$(4), (6), (2, 2), (2, 4), (2, 6), (2, 8)^2, (4, 4), (4, 8)$	16810b1
(2)	$(4), (6), (8), (2, 2), (2, 4)^2, (2, 6), (2, 8), (4, 4)$	128a2
(2)	$(4), (6), (8), (2, 2), (2, 4)^2, (2, 6), (3, 6), (4, 4)$	126350bb1
(2)	$(4), (6), (8), (2, 2), (2, 4), (2, 6), (2, 8)^2, (4, 4)$	867b1
(2)	$(4), (6), (8), (12), (2, 2), (2, 4)^2, (2, 6), (3, 6)$	2205a1
(2)	$(4), (6), (8), (12), (2, 2), (2, 4), (2, 6), (2, 12), (4, 12)$	650j2
(2)	$(4), (6), (12), (2, 2), (2, 4)^2, (2, 6), (2, 8), (4, 12)$	576a4
(2)	$(4), (6), (12), (2, 2), (2, 4), (2, 6), (2, 8), (2, 12), (4, 12)$	576a2
(2)	$(4), (8), (12), (2, 2), (2, 4), (2, 12), (2, 24)^2, (4, 12)$	14400ef3
(2)	$(4), (12), (24), (2, 2), (2, 4), (2, 12), (2, 24)^2, (4, 12)$	14400bo3
(2)	$(6), (8), (16), (2, 2), (2, 4), (2, 6), (2, 8)^2, (4, 8)$	294f1
(2)	$(6), (12), (24), (2, 2), (2, 4), (2, 6), (2, 12), (2, 24), (4, 12)$	1040g1
(2)	$(4)^2, (8)^2, (2, 6), (2, 12)^2, (2, 24)^2, (4, 12)$	450g1
(2)	$(4), (6), (8), (2, 2), (2, 4)^2, (2, 6), (2, 10), (2, 20)^2$	1014c2
(2)	$(4), (6), (8), (2, 2), (2, 4), (2, 6), (2, 8)^2, (4, 4), (4, 8)$	768c2
(2)	$(4), (6), (8), (2, 2), (2, 4), (2, 8), (2, 16), (4, 4), (4, 8), (6, 6)$	49a1

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2)	$(4), (6), (8)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8), (4, 4)$	768a1
(2)	$(4), (6), (8), (10), (20), (2, 2), (2, 4)^2, (2, 6), (2, 10)$	66c3
(2)	$(4), (6), (8), (12), (2, 2), (2, 4)^2, (2, 6), (2, 12)^2$	14a3
(2)	$(4), (6), (8), (12), (2, 2), (2, 4)^2, (2, 6), (3, 6), (4, 4)$	173280f1
(2)	$(4), (6), (8), (12), (2, 6), (2, 12)^2, (6, 6), (6, 12)^2$	98a3
(2)	$(4), (8), (12), (24), (2, 2), (2, 4), (2, 12), (2, 24)^2, (4, 12)$	30a3
(2)	$(4)^2, (8)^2, (2, 6), (2, 12)^2, (2, 24)^3, (4, 12)$	960o7
(2)	$(4), (6), (8)^2, (2, 2), (2, 4), (2, 6), (2, 8), (4, 4), (4, 8)^2$	294f2
(2)	$(4), (6), (8), (10), (20), (2, 2), (2, 4)^2, (2, 6), (2, 10), (2, 20)$	1014c1
(2)	$(4), (6), (8), (10), (30), (2, 2), (2, 4), (2, 6), (2, 10), (2, 20)^2$	14400cg3
(2)	$(4), (6), (8), (12), (2, 2), (2, 4)^2, (2, 6), (2, 12)^2, (4, 4)$	20a3
(2)	$(4), (6), (8), (12), (2, 2), (2, 4)^2, (2, 6), (2, 12)^2, (6, 6)$	726a1
(2)	$(4), (6), (8), (12), (2, 2), (2, 4), (2, 6), (2, 8), (2, 12), (4, 4), (4, 12)$	130a4
(2)	$(4), (6), (12), (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 12)^2, (4, 4)$	900b2
(2)	$(4), (6), (12), (24), (2, 2), (2, 4)^2, (2, 6), (2, 12)^2, (4, 4)$	650j1
(2)	$(4), (8), (10)^2, (2, 2), (2, 4)^2, (2, 6), (2, 10), (4, 4), (6, 6)$	7200a2
(2)	$(4), (8), (10)^2, (12), (2, 2), (2, 4)^2, (2, 10), (4, 4), (6, 12)$	288a1
(2)	$(4), (8), (12), (16), (24), (2, 2), (2, 4), (2, 12), (2, 24)^2, (4, 12)$	960e3
(2)	$(4), (8), (12), (24), (2, 2), (2, 4), (2, 8), (2, 12), (2, 24)^2, (4, 12)$	720j3
(2)	$(4), (8), (12), (24), (48), (2, 2), (2, 4), (2, 12), (2, 24)^2, (4, 12)$	960o3
(2)	$(6), (10), (20), (30), (40), (2, 2), (2, 4), (2, 6), (2, 10), (2, 20)^2$	450a4
(2)	$(4)^2, (6), (8)^2, (12)^2, (2, 2), (2, 4), (2, 6), (4, 4), (4, 8)$	7200bn4
(2)	$(4)^2, (6), (8)^2, (12)^2, (2, 2), (2, 6), (4, 4), (4, 8)^2$	320a4
(2)	$(4)^2, (6), (8), (12)^2, (16), (2, 2), (2, 6), (4, 4), (4, 8)^2$	200c4
(2)	$(4), (6), (8)^2, (10)^2, (2, 2), (2, 6), (2, 10), (3, 6), (4, 4), (4, 8)$	2304h2
(2)	$(4), (6), (8)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8), (4, 4)$	768c1
(2)	$(4), (6), (8), (10), (2, 2), (2, 4)^2, (2, 6), (2, 10)^2, (3, 6), (4, 4)$	800d1
(2)	$(4), (6), (8), (10)^2, (2, 2), (2, 4)^2, (2, 6), (2, 10), (3, 6), (4, 4)$	1568a1
(2)	$(4), (6), (8), (10)^2, (12), (2, 2), (2, 4)^2, (2, 10), (4, 4), (6, 6)$	576f2
(2)	$(4), (6), (8), (10), (20), (2, 2), (2, 4)^2, (2, 6), (2, 10), (3, 6), (4, 4)$	800d2
(2)	$(4), (6), (10)^2, (2, 2), (2, 4), (2, 6), (2, 8), (2, 10), (3, 6), (4, 4), (8, 8)$	256b1
(2)	$(4), (8), (10)^2, (2, 2), (2, 4)^2, (2, 6), (2, 10), (2, 12), (4, 4), (6, 6)$	576f1
(2)	$(4), (8), (10)^2, (2, 2), (2, 4)^2, (2, 6), (2, 10), (2, 12), (4, 4), (6, 12)$	288a2
(2)	$(4)^2, (6), (8)^2, (12)^2, (2, 2), (2, 4), (2, 6), (2, 8)^2, (4, 4)$	153c4
(2)	$(4)^2, (6), (8), (12)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (4, 4)$	153c1
(2)	$(4)^2, (8)^2, (10), (12), (2, 2), (2, 4), (2, 10), (2, 20), (4, 4), (4, 8), (6, 12)$	288d4
(2)	$(4), (6)^2, (8), (12)^2, (2, 2), (2, 4)^2, (2, 6)^2, (3, 6), (6, 6)$	1210a1

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2)	$(4), (6), (8)^2, (10)^2, (16), (2, 2), (2, 6), (2, 10), (3, 6), (4, 4), (8, 8)$	256b2
(2)	$(4), (6), (8)^2, (12), (24), (2, 2), (2, 4), (2, 6), (2, 8), (2, 16)^2, (4, 8)$	7056bx3
(2)	$(4), (6), (8)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8), (3, 6), (4, 4)$	49a2
(2)	$(4), (6), (8), (10), (20), (30), (2, 2), (2, 4)^2, (2, 6), (2, 10), (2, 20)^2$	150b3
(2)	$(4), (6), (8), (12), (24), (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 12)^2, (4, 4)$	130a3
(2)	$(4), (6), (10)^2, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 10), (3, 6), (4, 4), (4, 8)$	2304h1
(2)	$(6)^2, (2, 2), (2, 4)^2, (2, 6)^2, (2, 8), (2, 12)^2, (3, 6), (4, 4), (6, 6)$	2304c1
(2)	$(6)^2, (2, 2), (2, 4)^2, (2, 6)^2, (2, 8), (2, 12)^2, (3, 6), (4, 8), (6, 6)$	256a1
(2)	$(6), (8)^2, (16)^2, (24)^2, (2, 2), (2, 6), (4, 8), (4, 16)^2, (8, 8)$	2880r6
(2)	$(4)^2, (6), (8)^2, (12)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (4, 4)$	120b1
(2)	$(4)^2, (6), (8), (12)^2, (16), (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (4, 4)$	936i1
(2)	$(4)^2, (6), (8), (12)^2, (16), (2, 2), (2, 4), (2, 6), (2, 8)^2, (4, 4), (4, 8)$	289a4
(2)	$(4)^2, (6), (12)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (4, 4), (4, 8)$	289a3
(2)	$(4), (6)^2, (8), (12), (2, 2), (2, 4)^2, (2, 6)^2, (2, 12), (3, 6), (3, 12), (6, 6)$	726a2
(2)	$(4), (6), (8)^2, (12), (16), (24), (2, 2), (2, 4), (2, 6), (2, 8), (2, 16)^2, (4, 8)$	306c1
(2)	$(4), (6), (8)^2, (12), (24), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8)$	576i4
(2)	$(4), (6), (8), (12), (16), (24), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8)$	147a3
(2)	$(4), (6), (8), (12), (16), (24), (2, 2), (2, 4), (2, 6), (2, 8), (2, 16)^2, (4, 8), (8, 8)$	192d6
(2)	$(4), (6), (8), (12), (16), (32), (48), (2, 2), (2, 4), (2, 6), (2, 16), (2, 32)^2, (4, 16)$	3150bk1
(2)	$(4), (6), (8), (12), (24), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8), (4, 16)$	277440dv8
(2)	$(4)^2, (6), (8)^2, (10), (12)^2, (2, 2), (2, 4), (2, 10), (2, 20), (4, 4), (4, 8), (6, 6)$	576h1
(2)	$(4)^2, (6), (8)^2, (12)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (4, 4)$	33a4
(2)	$(4)^2, (6), (8)^2, (12)^2, (16), (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (4, 4)$	33a2
(2)	$(4)^2, (6), (8)^2, (12)^2, (20), (2, 2), (2, 4), (2, 10), (2, 20), (4, 4), (4, 8), (6, 6)$	800a4
(2)	$(4)^2, (6), (8), (10), (12)^2, (16), (2, 2), (2, 10), (4, 4), (4, 8), (4, 20), (6, 6), (8, 8)$	64a4
(2)	$(4)^2, (6), (8), (12)^2, (2, 2), (2, 4), (2, 6), (2, 8), (2, 12)^2, (2, 24)^2, (4, 12)$	14400ef8
(2)	$(4)^2, (6), (8), (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (4, 4)$	320a1
(2)	$(4)^2, (6), (12)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (4, 4), (4, 8)$	200c3
(2)	$(4)^2, (6), (12)^2, (24), (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 12), (2, 24)^2, (4, 12)$	14400ef7
(2)	$(4)^2, (6), (12)^2, (24), (2, 2), (2, 4), (2, 6), (2, 8), (2, 12)^2, (2, 24)^2, (4, 12)$	14400bo7
(2)	$(4), (6)^2, (8), (12), (2, 2), (2, 4), (2, 6)^2, (2, 12)^3, (3, 6), (6, 6), (6, 12)$	3136k3
(2)	$(4), (6), (8)^3, (12), (16)^3, (24), (2, 2), (2, 6), (2, 8), (4, 8), (4, 16)$	14400y6
(2)	$(4), (6), (8)^3, (12), (16), (24), (2, 2), (2, 6), (2, 8), (2, 16)^2, (4, 8), (4, 16)$	4800b6
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (2, 2), (2, 4), (2, 6), (2, 8), (2, 16)^2, (4, 8)$	126b1
(2)	$(4), (6), (8)^2, (12), (16), (24), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8)$	126b5
(2)	$(4), (6), (8)^2, (12), (16), (24), (2, 2), (2, 4), (2, 6), (2, 8), (2, 16)^2, (2, 32), (4, 8)$	45a1
(2)	$(4), (6), (8)^2, (12), (16), (24), (32), (2, 2), (2, 4), (2, 6), (2, 8), (2, 16)^2, (4, 8)$	63a1

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2)	$(4), (6), (8), (12), (16), (24), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8), (4, 16)$	144b1
(2)	$(4), (6), (8), (12), (16), (24), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8), (8, 8)$	1344g5
(2)	$(6)^2, (12), (24), (2, 2), (2, 4), (2, 6)^2, (2, 12)^3, (3, 6), (3, 12), (6, 6), (6, 12)$	98a4
(2)	$(4)^2, (6), (8)^3, (12)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 16)^2, (4, 8)$	14400dq5
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8), (4, 8)$	360a1
(2)	$(4)^2, (6), (8), (12)^2, (16), (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (4, 4), (4, 8)$	17a3
(2)	$(4), (6), (8)^3, (12), (16)^3, (24), (2, 2), (2, 6), (2, 8), (2, 16)^2, (4, 8)$	585f6
(2)	$(4), (6), (8)^3, (12), (16)^2, (24), (2, 2), (2, 6), (2, 8), (2, 16)^2, (4, 8), (4, 16)$	225c6
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8)$	120a6
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (2, 2), (2, 4), (2, 6), (2, 8), (2, 16)^2, (4, 8), (8, 8)$	24a6
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (32), (2, 2), (2, 4), (2, 6), (2, 8), (2, 16)^2, (4, 8)$	1344g1
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (32)^2, (2, 2), (2, 4), (2, 6), (2, 8), (2, 16), (4, 16)$	25200dz1
(2)	$(4), (6), (8)^2, (12), (16), (24), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8), (4, 16)$	816h1
(2)	$(4), (6), (8)^2, (12), (16), (24), (32), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8)$	1344g4
(2)	$(4)^2, (6), (8)^3, (12)^2, (16), (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16), (4, 4)$	360a4
(2)	$(4)^2, (6), (8)^3, (12)^2, (16), (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 16)^2, (4, 8)$	600a5
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (4, 4)$	990c5
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (4, 8)$	306c6
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (2, 2), (2, 4)^2, (2, 6), (2, 8), (4, 8)$	600d1
(2)	$(4)^2, (6), (8)^2, (12)^2, (24), (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 12)^2, (2, 24), (4, 4)$	2880n1
(2)	$(4)^2, (6), (8)^2, (12)^2, (24)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 12), (4, 12)$	240b1
(2)	$(4)^2, (6), (8)^2, (12)^2, (24)^2, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 12)^2, (4, 12)$	30a8
(2)	$(4)^2, (6), (8), (12)^2, (24), (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (2, 24), (4, 4)$	14400bo1
(2)	$(4)^2, (6), (8), (12)^2, (24)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 12)^2, (2, 24), (4, 4)$	30a7
(2)	$(4)^2, (8), (10)^2, (12), (20)^2, (2, 2), (2, 4)^2, (2, 8)^2, (2, 10), (2, 12), (3, 12), (4, 4)$	288d3
(2)	$(4), (6), (8)^3, (12), (16)^3, (24), (2, 2), (2, 6), (2, 8), (2, 16)^2, (4, 8), (4, 16)$	4800cd6
(2)	$(4), (6), (8)^3, (12), (16)^3, (24), (2, 2), (2, 6), (2, 8), (2, 16)^2, (4, 8), (8, 8)$	45a6
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8), (4, 16)$	48a4
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8), (8, 8)$	42a5
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (32), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8)$	294c5
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (32), (2, 2), (2, 4), (2, 6), (2, 8), (2, 16)^2, (2, 32), (4, 8)$	25200dz4
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (32)^2, (2, 2), (2, 4), (2, 6), (2, 8), (2, 16)^2, (4, 8)$	630c1
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^4, (2, 2), (2, 6), (4, 4), (4, 8)^2$	187200eh5
(2)	$(4)^2, (6), (8)^3, (12)^2, (16), (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (4, 4)$	600d4
(2)	$(4)^2, (6), (8)^3, (12)^2, (16), (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16)^2, (4, 8)$	192d3
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (4, 4)$	525b6
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16), (4, 4)$	306c4

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 16)^2, (4, 8)$	192d1
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (4, 4)$	525b5
(2)	$(4)^2, (6), (8)^2, (12)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (4, 4), (4, 8)$	2880be5
(2)	$(4)^2, (6), (8)^2, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (4, 4), (4, 8)$	1287e6
(2)	$(4)^2, (6), (8)^2, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (4, 4), (4, 8)^2$	600a4
(2)	$(4)^2, (6), (8)^2, (12)^2, (16), (24), (2, 2), (2, 4), (2, 6), (2, 8), (2, 12)^2, (2, 24)^2, (4, 12)$	1050k4
(2)	$(4)^2, (6), (8)^2, (12)^2, (24)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (4, 4)$	210a3
(2)	$(4)^2, (6), (8), (10)^2, (12), (20)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 10), (3, 12), (4, 4)$	288d2
(2)	$(4)^2, (6), (8), (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (4, 4), (4, 8)$	40a2
(2)	$(4)^2, (6), (8), (12)^2, (16), (24)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 12), (2, 24)^2, (4, 12)$	720j7
(2)	$(4)^2, (6), (8), (12)^2, (16), (24)^2, (2, 2), (2, 4), (2, 6), (2, 8), (2, 12)^2, (2, 24)^2, (4, 12)$	150c8
(2)	$(4)^2, (6), (8), (12)^2, (24), (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 12)^2, (2, 24)^2, (4, 4), (4, 12)$	960e7
(2)	$(4)^2, (6), (10), (12), (20), (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (2, 20), (3, 12), (4, 4), (4, 8)$	64a2
(2)	$(4)^2, (6), (12)^2, (24)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 12)^2, (2, 24)^2, (4, 4), (4, 12)$	150c7
(2)	$(4), (6)^2, (8), (12)^2, (2, 2), (2, 4)^2, (2, 6)^2, (2, 12)^4, (3, 6), (3, 12), (6, 6)$	112c3
(2)	$(4), (6), (8)^3, (12), (16)^3, (24), (32), (2, 2), (2, 6), (2, 8), (2, 16)^2, (4, 8), (4, 16)$	75b6
(2)	$(4), (6), (8)^2, (12), (16)^3, (24), (32)^2, (2, 2), (2, 4), (2, 6), (2, 8), (2, 16)^2, (4, 8)$	4800cd8
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (32), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8), (4, 16)$	510e7
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (32)^2, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8)$	4800cd7
(2)	$(4), (6), (8)^2, (12), (16)^2, (24), (32)^2, (2, 2), (2, 4), (2, 6), (2, 8), (2, 16)^2, (2, 32), (4, 8)$	75b1
(2)	$(4), (6), (8), (12), (16)^2, (24), (32)^2, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8), (4, 16)$	1470k3
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^4, (2, 2), (2, 6), (4, 4), (4, 8)^2, (4, 16)$	4410r6
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^4, (2, 2), (2, 6), (4, 4), (4, 8)^2, (8, 8)$	6150n6
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (4, 4)$	126b3
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16)^2, (4, 8)$	144b5
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16), (4, 4)$	126b6
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 16)^2, (4, 8)$	975a4
(2)	$(4)^2, (6), (8)^2, (12)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^3, (4, 4), (4, 8)$	3264h5
(2)	$(4)^2, (6), (8)^2, (12)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (4, 4), (4, 8)^2$	72a3
(2)	$(4)^2, (6), (8)^2, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (4, 4), (4, 8)$	1008k5
(2)	$(4)^2, (6), (8)^2, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (4, 4), (4, 8)^2$	63a6
(2)	$(4)^2, (6), (8), (10)^2, (12)^2, (20)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 10), (3, 6), (4, 4)$	800a2
(2)	$(4)^2, (6), (8), (10), (12)^2, (20)^3, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 10), (3, 6), (4, 4)$	800a3
(2)	$(4), (6), (8)^2, (12), (16)^3, (24), (32)^2, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8)$	6720cd1
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^2, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 4), (4, 8)$	40560bg5
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^4, (2, 2), (2, 4), (2, 6), (2, 8)^2, (4, 4), (4, 8)$	2925g6
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (4, 4), (4, 8)$	240a1

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (4, 4)$	45a7
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (4, 4), (4, 8)$	231a5
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16)^2, (4, 8)$	192c1
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (4, 4), (4, 8)^2$	240a4
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^4, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16), (4, 4)$	45a8
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^4, (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 16)^2, (4, 8)$	960i8
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (32), (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16), (4, 4)$	585f1
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (32), (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 16)^2, (4, 8)$	45a3
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (32)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8), (2, 16)^2, (4, 8)$	1200j1
(2)	$(4)^2, (6), (8)^2, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (4, 4), (4, 8)$	2352v1
(2)	$(4)^2, (6), (8)^2, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16)^2, (4, 4), (4, 8)^2$	1734i4
(2)	$(4)^2, (6), (8)^2, (12)^2, (16), (24)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (2, 24), (4, 4)$	90c5
(2)	$(4)^2, (6), (8)^2, (12)^2, (24)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 12)^2, (4, 4), (4, 12)$	90c4
(2)	$(4)^2, (6), (8), (10), (12), (20), (40), (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (2, 20), (3, 12), (4, 4), (4, 8)$	32a3
(2)	$(4), (6), (8)^2, (12), (16)^3, (24), (32)^2, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 8), (4, 16)$	1680p1
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^2, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 4), (4, 8)^2$	69360cb5
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^3, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 4), (4, 8)$	7605p6
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^4, (2, 2), (2, 4), (2, 6), (2, 8)^2, (4, 4), (4, 8)^2$	975a6
(2)	$(4)^2, (6), (8)^3, (12)^2, (16), (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^3, (4, 4), (4, 8)$	24a5
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (4, 4), (4, 8)$	120a5
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16)^2, (4, 4), (4, 8)^2$	816h4
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (4, 4), (4, 8)$	21a5
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (4, 4), (4, 8)^2$	21a6
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^4, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (4, 4)$	1050c7
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^4, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16)^2, (4, 8)$	630c8
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^4, (32), (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16), (4, 4)$	225c8
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (32), (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (4, 4)$	225c7
(2)	$(4)^2, (6), (8)^2, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^3, (4, 4), (4, 8)$	192c5
(2)	$(4)^2, (6), (8)^2, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (4, 4), (4, 8)^2$	294c3
(2)	$(4)^2, (6), (8)^2, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16)^3, (4, 4), (4, 8)^2$	1200j8
(2)	$(4)^2, (6), (8)^2, (12)^2, (16)^2, (32), (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (4, 4), (4, 8)$	225c3
(2)	$(4)^2, (6), (8)^4, (12)^2, (16), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^4, (4, 4), (4, 8)^2$	277440dv5
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^2, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^4, (4, 4), (4, 8)$	6720c6
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^3, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 4), (4, 8)^2$	130050bu6
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^4, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 4), (4, 8)$	1050c6
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^3, (4, 4), (4, 8)$	42a6
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (4, 4), (4, 8)^2$	48a2

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^4, (32), (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (4, 4)$	1470k7
(2)	$(4)^2, (6), (8)^2, (12)^2, (16)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^3, (4, 4), (4, 8)^2$	75b7
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^4, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 4), (4, 8)^2$	630c6
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^4, (32), (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^2, (4, 4), (4, 8)$	3150bk6
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^4, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (4, 4), (4, 8)$	195a7
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^3, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^4, (4, 4), (4, 8)^2$	1470k6
(2)	$(4)^2, (6), (8)^4, (12)^2, (16)^4, (2, 2), (2, 4), (2, 6), (2, 8)^2, (2, 16)^4, (4, 4), (4, 8)$	6720cd6
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^3, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^3, (4, 4), (4, 8)^2$	15a5
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^4, (2, 2), (2, 4)^2, (2, 6), (2, 8)^2, (2, 16)^3, (4, 4), (4, 8)^2$	15a6
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^4, (32), (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (4, 4), (4, 8)$	1230f7
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^4, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^3, (4, 4), (4, 8)^2$	210e7
(2)	$(4)^2, (6), (8)^3, (12)^2, (16)^4, (32)^2, (2, 2), (2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (4, 4), (4, 8)$	240d1
(3)	$(3, 3)$	19a1
(3)	(15)	50a1
(3)	$(15), (5, 15)$	225b1
(4)	$(8), (16), (2, 12), (2, 24)^2, (4, 12)$	150c3
(4)	$(8), (12), (16), (4, 4), (4, 8)^2, (4, 12)$	40a4
(4)	$(8), (12), (2, 8), (2, 16)^2, (2, 24), (4, 8), (4, 16)$	1734i1
(4)	$(8), (12), (16), (2, 4), (2, 8)^2, (2, 12), (4, 4)$	33a3
(4)	$(8), (12), (16), (2, 8), (2, 16)^2, (2, 24), (4, 8)$	2352v4
(4)	$(12), (2, 4), (2, 8)^2, (2, 12), (2, 16), (4, 4), (4, 8)$	289a1
(4)	$(8), (12), (16), (2, 4), (2, 8), (2, 12), (2, 16)^2, (4, 8)$	2880be6
(4)	$(8), (12), (16), (2, 8), (2, 16)^2, (2, 24), (4, 8), (4, 16)$	294c1
(4)	$(8), (12), (16), (2, 8), (2, 16)^2, (2, 24), (4, 8), (8, 8)$	192c6
(4)	$(12), (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)$	200c1
(4)	$(8), (12), (16), (2, 4), (2, 8)^2, (2, 12), (2, 16), (4, 4), (4, 8)$	17a4
(4)	$(8), (12), (16), (2, 4), (2, 8)^2, (2, 12), (4, 4), (4, 8)^2$	17a1
(4)	$(8), (12), (16), (2, 4), (2, 8), (2, 12), (2, 16)^2, (4, 8), (4, 16)$	72a1
(4)	$(8), (12), (16), (2, 4), (2, 8), (2, 12), (2, 16)^2, (4, 8), (8, 8)$	3264h6
(4)	$(12), (24), (48), (2, 4), (2, 8), (2, 12), (2, 24)^2, (4, 4), (4, 12)$	960o8
(4)	$(8), (12), (2, 4), (2, 8)^2, (2, 12), (2, 16)^3, (4, 4), (4, 8)$	192d5
(4)	$(8), (12), (16), (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)$	147a1
(4)	$(8), (12), (16), (2, 8), (2, 16)^2, (2, 24), (2, 32)^2, (4, 8), (4, 16)$	1470k1
(4)	$(8), (12), (16), (20), (2, 4), (2, 20), (4, 4), (4, 8), (4, 20), (6, 12), (8, 8)$	32a1
(4)	$(8), (12), (16), (24), (2, 4), (2, 8)^2, (2, 12), (2, 24)^2, (4, 12)$	720j8
(4)	$(8), (12), (16), (24), (2, 4), (2, 8), (2, 12), (2, 24)^2, (4, 4), (4, 12)$	1050k1
(4)	$(8), (12), (2, 4), (2, 8)^2, (2, 12), (2, 16)^3, (4, 4), (4, 8)^2$	1200j7

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(4)	$(8), (12), (16), (2, 4), (2, 8)^2, (2, 12), (2, 16)^3, (4, 4), (4, 8)$	63a5
(4)	$(8), (12), (16), (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (2, 32), (4, 4), (4, 8)$	225c1
(4)	$(8), (12), (16), (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)^2$	144b4
(4)	$(8), (12), (16)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)$	40a3
(4)	$(8), (12), (16), (24), (2, 4), (2, 8)^2, (2, 12), (2, 24)^2, (4, 4), (4, 12)$	90c1
(4)	$(8)^2, (12), (16)^2, (24)^2, (2, 4), (2, 8), (2, 12), (2, 16)^2, (4, 8)$	240a6
(4)	$(8), (12), (16), (2, 4), (2, 8)^2, (2, 12), (2, 16)^3, (4, 4), (4, 8)^2$	75b8
(4)	$(12), (20)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (2, 20), (3, 12), (4, 4), (4, 8)$	64a3
(4)	$(8)^2, (12), (16)^2, (24)^2, (2, 4), (2, 8), (2, 12), (2, 16)^2, (4, 8), (4, 16)$	24a4
(4)	$(8)^2, (12), (16)^2, (24)^2, (2, 4), (2, 8), (2, 12), (2, 16)^2, (4, 8), (8, 8)$	816h6
(4)	$(8)^2, (12), (16), (24)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)$	240a5
(4)	$(8)^2, (12), (16)^2, (24)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)$	231a1
(4)	$(8)^2, (12), (16)^2, (24)^2, (2, 8), (2, 16)^2, (2, 24), (4, 8), (4, 16)^2, (8, 8)$	240d6
(4)	$(8)^2, (12), (16), (24)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^3, (4, 4), (4, 8)$	816h5
(4)	$(8)^2, (12), (16), (24)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)^2$	24a3
(4)	$(8), (12), (20)^2, (40), (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (2, 20), (3, 12), (4, 4), (4, 8)$	32a4
(4)	$(8)^2, (12), (16)^2, (24)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^3, (4, 4), (4, 8)$	120a1
(4)	$(8)^2, (12), (16)^2, (24)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)^2$	120a4
(4)	$(8)^2, (12), (16)^2, (24)^2, (32), (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)$	21a4
(4)	$(8)^2, (12), (16)^2, (24)^2, (32), (2, 4), (2, 8)^2, (2, 12), (2, 16)^3, (4, 4), (4, 8)$	48a5
(4)	$(8)^2, (12), (16)^2, (24)^2, (32), (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)^2$	42a4
(4)	$(8)^2, (12), (16)^3, (24)^2, (32)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)$	195a1
(4)	$(8)^2, (12), (16)^3, (24)^2, (32)^3, (2, 4), (2, 8), (2, 12), (2, 16)^2, (4, 8), (4, 16)$	1230f4
(4)	$(8)^2, (12), (16)^2, (24)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^4, (4, 4), (4, 8)^2$	195a6
(4)	$(8)^2, (12), (16)^3, (24)^2, (32)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (2, 32), (4, 4), (4, 8)$	15a7
(4)	$(8)^2, (12), (16)^3, (24)^2, (32)^3, (2, 4), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)$	510e1
(4)	$(8)^2, (12), (16)^2, (24)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^4, (4, 4), (4, 8)^2, (4, 16)$	1680p6
(4)	$(8)^2, (12), (16)^2, (24)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^4, (4, 4), (4, 8)^2, (8, 8)$	510e6
(4)	$(8)^2, (12), (16)^3, (24)^2, (32)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^3, (4, 4), (4, 8)^2$	240d7
(4)	$(8)^2, (12), (16)^2, (24)^2, (32)^2, (2, 4), (2, 8)^2, (2, 12), (2, 16)^4, (4, 4), (4, 8)^2, (4, 16)$	210e6
(5)	(15)	11a3
(5)	$(15), (5, 5)$	11a1
(6)	$(12), (24), (2, 6), (4, 12)$	36a1
(6)	$(12), (24), (2, 6), (2, 12)^2$	14a4
(6)	$(12), (2, 6), (2, 12)^2, (2, 24), (4, 12)$	36a2
(6)	$(12), (24), (2, 6), (2, 12)^2, (4, 12)$	20a1
(6)	$(12), (24), (2, 6), (2, 12), (2, 24), (4, 12)$	130a2

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(6)	$(12), (24), (2, 6), (2, 12)^2, (2, 24), (4, 12)$	130a1
(6)	$(12)^2, (24)^2, (2, 6), (2, 12)^2, (2, 24)^2, (4, 12)$	30a1
(6)	$(12), (24), (2, 6), (2, 12)^2, (3, 6), (3, 12), (6, 6), (6, 12)^2$	14a1
(6)	$(12)^2, (24)^2, (2, 6), (2, 12)^2, (2, 24)^3, (4, 12)$	90c7
(6)	$(12)^2, (24)^2, (48), (2, 6), (2, 12)^2, (2, 24)^2, (4, 12)$	90c8
(7)	(21)	26b1
(8)	$(16), (24), (32), (2, 8), (2, 16)^2, (2, 24), (4, 8)$	21a3
(8)	$(16), (24), (32), (2, 8), (2, 16)^2, (2, 24), (4, 8), (4, 16)$	42a1
(8)	$(16), (24), (32), (2, 8), (2, 16)^2, (2, 24), (4, 8), (8, 8)$	48a6
(8)	$(16), (24), (32), (2, 8), (2, 16)^2, (2, 24), (2, 32)^2, (4, 8), (4, 16)$	1230f1
(8)	$(16), (24), (32), (2, 8), (2, 16)^2, (2, 24), (4, 8), (4, 16)^2, (8, 8)$	15a4
(8)	$(16)^2, (24), (32)^2, (48)^2, (2, 8), (2, 16)^2, (2, 24), (2, 32)^2, (4, 8), (4, 16)$	210e1
(10)	$(20), (30), (40), (2, 10), (2, 20)^2, (2, 30)$	66c1
(12)	$(24), (48), (2, 12), (2, 24)^2, (4, 12)$	90c3
(2, 2)	$(2, 4)^2, (2, 8)^2, (2, 12), (2, 24), (4, 12)$	960o6
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (4, 4)$	120b2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 12), (4, 8)$	14400dq3
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (4, 4), (4, 8)$	7200bn1
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12), (2, 24), (4, 12)$	14400ef6
(2, 2)	$(2, 4)^2, (2, 6), (2, 8), (2, 16), (2, 24), (4, 8), (8, 8)$	72a4
(2, 2)	$(2, 4), (2, 6), (2, 8), (2, 12)^2, (2, 24)^2, (4, 12)$	14400bo6
(2, 2)	$(2, 4), (2, 6), (2, 8), (2, 12), (4, 4), (4, 8)^3$	200c2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (4, 4)$	33a1
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (4, 4), (4, 8)$	320a2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 12), (4, 8), (8, 8)$	576d2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (2, 24), (4, 8)$	63a2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 16), (2, 24), (4, 8), (8, 8)$	1344g2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8), (2, 16)^2, (2, 24), (4, 8), (8, 8)$	6720c2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (4, 4)$	990e2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (2, 16), (4, 8)$	600a3
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (4, 4), (4, 8)$	990c4
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 12), (2, 16), (4, 8), (8, 8)$	192d2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (2, 24), (4, 8)$	1050c2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 16), (2, 24), (4, 8), (8, 8)$	294c4
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^3, (2, 24), (4, 12)$	30a6
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (2, 24)^2, (4, 12)$	720j6
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 16)^2, (2, 24), (4, 8), (8, 8)$	4800cd5

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2, 2)	$(2, 4)^2, (2, 6), (2, 8), (2, 12)^2, (4, 4), (4, 8)^3$	2880be3
(2, 2)	$(2, 4)^2, (2, 6), (2, 8), (2, 12)^2, (4, 4), (4, 8)^2, (8, 8)$	3264h3
(2, 2)	$(2, 4)^2, (2, 6), (2, 8), (2, 12)^2, (4, 8), (4, 16)^2, (8, 8)$	277440dv6
(2, 2)	$(2, 4), (2, 6), (2, 8), (2, 12)^3, (2, 24)^3, (4, 12)$	150c6
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (4, 4), (4, 8)$	525b3
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12)^3, (4, 4)$	210a6
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12)^3, (4, 12)$	240b2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (2, 16)^2, (4, 8)$	40560bg2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (2, 16), (4, 8), (8, 8)$	1734i3
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (4, 4), (4, 8)^2$	360a2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 12), (2, 16)^2, (4, 8), (8, 8)$	576d4
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 12), (4, 4), (4, 8)^3$	14400dq2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (2, 24), (4, 8), (4, 16)$	630c2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (2, 24), (4, 8), (8, 8)$	6720cd2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (4, 4), (4, 8)^3$	17a2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (4, 4), (4, 8)^2, (8, 8)$	69360cb3
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (4, 8), (4, 16)^2, (8, 8)$	1200j4
(2, 2)	$(2, 4)^2, (2, 6), (2, 8), (2, 12)^2, (2, 16), (4, 4), (4, 8)^2, (8, 8)$	72a2
(2, 2)	$(2, 4), (2, 6), (2, 8), (2, 10)^2, (2, 12), (4, 4), (4, 8), (4, 20), (6, 6), (8, 8)$	64a1
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16)^2, (4, 8)$	441c2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16), (4, 4), (4, 8)$	525b2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (4, 4), (4, 8)^2$	306c3
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12)^3, (4, 4), (4, 12)$	14400bo2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (2, 16)^2, (4, 8), (4, 16)$	1200j2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (2, 16)^2, (4, 8), (8, 8)$	144b3
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (2, 16), (4, 4), (4, 8)^2$	306c2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (4, 4), (4, 8)^3$	7056bx4
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 10)^2, (2, 20), (4, 4), (4, 8), (6, 6)$	800a1
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 12), (2, 16)^3, (4, 8), (8, 8)$	69360cb6
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 12), (2, 16), (4, 4), (4, 8)^3$	2880be2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^4, (2, 12)^2, (4, 4), (4, 8), (8, 8)$	252150c4
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^4, (2, 12)^2, (4, 8), (4, 16), (8, 8)$	6150n3
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 12)^2, (2, 16), (4, 4), (4, 8), (8, 8)$	14400y4
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 12)^2, (4, 4), (4, 8)^3$	1008k3
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 16)^2, (2, 24), (2, 32), (4, 8), (4, 16)$	75b2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (2, 16), (4, 4), (4, 8)^3$	147a2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (2, 16), (4, 4), (4, 8)^2, (8, 8)$	144b2

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2, 2)	$(2, 4)^2, (2, 6), (2, 8), (2, 10), (2, 12), (2, 20), (4, 4), (4, 8), (4, 20), (6, 12), (8, 8)$	32a2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8), (2, 12)^2, (2, 16), (4, 4), (4, 8)^3, (8, 8)$	277440dv4
(2, 2)	$(2, 4), (2, 6), (2, 8)^3, (2, 12), (2, 16), (2, 24), (4, 8), (4, 16)^2, (8, 8)$	75b3
(2, 2)	$(2, 4), (2, 6), (2, 8)^2, (2, 12), (2, 16)^2, (2, 24), (4, 8), (4, 16)^2, (8, 8)$	1470k2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16)^3, (4, 8)$	975a2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16)^2, (4, 4), (4, 8)$	585f2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16)^2, (4, 8), (4, 16)$	45a2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16)^2, (4, 8), (8, 8)$	192c2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16), (4, 4), (4, 8)^2$	126b2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (4, 4), (4, 8)^3$	441c3
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12)^3, (2, 24), (4, 4), (4, 12)$	90c2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (2, 16)^3, (4, 8), (8, 8)$	960g5
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (2, 16), (4, 4), (4, 8)^3$	147a4
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 10)^2, (2, 12), (2, 20), (4, 4), (4, 8), (6, 6)$	576h2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 10)^2, (2, 12), (2, 20), (4, 4), (4, 8), (6, 12)$	288d1
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)^3$	4800b2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^4, (2, 12)^2, (4, 4), (4, 8)^3$	975a3
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 12)^2, (2, 16), (4, 4), (4, 8)^3$	63a4
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 12)^2, (2, 16), (4, 4), (4, 8)^2, (8, 8)$	45a4
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (2, 16)^2, (4, 4), (4, 8)^3$	40a1
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (2, 16)^2, (4, 4), (4, 8)^2, (8, 8)$	225c4
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (2, 16), (4, 4), (4, 8)^3, (4, 16)$	225c2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8), (2, 12)^2, (2, 16)^2, (4, 4), (4, 8)^3, (8, 8)$	1200j5
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16)^3, (4, 4), (4, 8)$	960g2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16)^3, (4, 8), (4, 16)$	6150n2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16)^3, (4, 8), (8, 8)$	630c5
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16), (4, 4), (4, 8)^3$	2352v3
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12)^3, (4, 4), (4, 8)^3$	240a2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (2, 16)^2, (4, 4), (4, 8)^3$	225c5
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 12)^3, (2, 16), (4, 4), (4, 8)^2, (8, 8)$	24a2
(2, 2)	$(2, 4)^3, (2, 6), (2, 8)^2, (2, 12), (2, 16)^3, (4, 4), (4, 8)^3$	277440dv2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^4, (2, 12)^2, (2, 16)^2, (4, 4), (4, 8), (8, 8)$	141120e13
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 12)^2, (2, 16)^2, (4, 4), (4, 8)^3$	2352v2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 12)^2, (2, 16)^2, (4, 4), (4, 8)^2, (8, 8)$	192c3
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 12)^2, (2, 16), (2, 24), (4, 8), (4, 16)^2, (8, 8)$	510e5
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (2, 16)^2, (4, 4), (4, 8)^3, (4, 16)$	130050bu2
(2, 2)	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (2, 16)^2, (4, 4), (4, 8)^3, (8, 8)$	2880r4

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
$(2, 2)$	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12)^3, (4, 4), (4, 8)^3$	231a3
$(2, 2)$	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16)^2, (4, 4), (4, 8)^3$	1050c5
$(2, 2)$	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12)^3, (2, 16), (4, 4), (4, 8)^3$	120a3
$(2, 2)$	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12), (2, 16)^3, (4, 4), (4, 8)^3$	45a5
$(2, 2)$	$(2, 4)^2, (2, 6), (2, 8)^4, (2, 12)^2, (2, 16)^2, (4, 4), (4, 8)^3$	1050c3
$(2, 2)$	$(2, 4)^2, (2, 6), (2, 8)^4, (2, 12)^2, (2, 16)^2, (4, 4), (4, 8)^2, (8, 8)$	630c4
$(2, 2)$	$(2, 4)^2, (2, 6), (2, 8)^4, (2, 12)^2, (2, 16), (4, 4), (4, 8)^3, (4, 16)$	25200dz3
$(2, 2)$	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 12)^2, (2, 16)^3, (4, 4), (4, 8)^2, (8, 8)$	294c2
$(2, 2)$	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 12)^2, (2, 16)^2, (2, 24), (4, 8), (4, 16)^2, (8, 8)$	1680p2
$(2, 2)$	$(2, 4)^2, (2, 6), (2, 8)^2, (2, 12)^2, (2, 16)^3, (4, 4), (4, 8)^3, (8, 8)$	75b5
$(2, 2)$	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12)^3, (2, 16), (4, 4), (4, 8)^3$	21a2
$(2, 2)$	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12), (2, 16)^3, (4, 4), (4, 8)^3$	1470k5
$(2, 2)$	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12)^3, (2, 16)^2, (4, 4), (4, 8)^2, (8, 8)$	42a3
$(2, 2)$	$(2, 4)^2, (2, 6), (2, 8)^4, (2, 12)^2, (2, 16)^2, (4, 4), (4, 8)^3, (4, 16)$	3150bk4
$(2, 2)$	$(2, 4)^2, (2, 6), (2, 8)^3, (2, 12)^2, (2, 16)^3, (4, 4), (4, 8)^3, (8, 8)$	1470k4
$(2, 2)$	$(2, 4)^2, (2, 6), (2, 8)^4, (2, 12)^2, (2, 16)^4, (4, 4), (4, 8)^2, (8, 8)$	6720cd4
$(2, 2)$	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12)^3, (2, 16)^3, (4, 4), (4, 8)^3$	195a5
$(2, 2)$	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12)^3, (2, 16)^3, (4, 4), (4, 8)^3, (4, 16)$	240d2
$(2, 2)$	$(2, 4)^3, (2, 6), (2, 8)^3, (2, 12)^3, (2, 16)^4, (4, 4), (4, 8)^3, (8, 8)$	15a2
$(2, 2)$	$(2, 4)^3, (2, 6), (2, 8)^4, (2, 12)^3, (2, 16)^5, (4, 4), (4, 8)^3, (8, 8)$	210e5
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)^3$	120a2
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)^2, (8, 8)$	24a1
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^2, (2, 24), (4, 4), (4, 8)^3$	21a1
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^2, (2, 24), (4, 4), (4, 8)^2, (8, 8)$	42a2
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)^3, (4, 12)$	195a3
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^3, (2, 24), (4, 4), (4, 8)^3$	195a2
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^3, (2, 24)^2, (4, 8), (4, 16)^2, (8, 8)$	1230f2
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^3, (2, 24), (4, 4), (4, 8)^3, (4, 16)$	510e2
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^3, (2, 24), (4, 4), (4, 8)^3, (8, 8)$	240d5
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)^3, (4, 12), (4, 16), (8, 8)$	510e3
$(2, 4)$	$(2, 8), (2, 12), (2, 16), (2, 24), (4, 4), (4, 8)^3, (4, 12), (4, 16)^2, (8, 8)$	15a1
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^3, (2, 24), (2, 32), (4, 4), (4, 8)^3, (4, 16)$	15a3
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^2, (4, 4), (4, 8)^3, (4, 12), (4, 16)^2, (8, 8)$	240d4
$(2, 4)$	$(2, 8)^2, (2, 12), (2, 16)^2, (2, 24)^2, (4, 4), (4, 8)^3, (4, 12), (4, 16)^2, (8, 8)$	210e3
$(2, 6)$	$(2, 12)^3, (2, 24)^3, (4, 12)$	30a2
$(2, 8)$	$(2, 16)^2, (2, 24), (2, 32)^2, (4, 8), (4, 16)^2, (8, 8)$	210e2