

$$d = 16$$

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

| G | $\Psi_{\mathbb{Q}}(16, G) \setminus \{G\} \supseteq$ |
|--------|---|
| () | {(5), (15), (17), (21), (3, 3), (3, 15), (5, 5), (5, 15)} |
| (2) | {(8), (10), (12), (16), (20), (24), (30), (32), (40), (48), (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)} |
| (3) | {(5, 15)} |
| (4) | {(16), (20), (24), (32), (40), (48), (2, 12), (2, 16), (2, 20), (2, 24), (2, 32), (3, 12), (4, 8), (4, 12), (4, 16), (4, 20), (6, 12), (8, 8)} |
| (5) | {} |
| (6) | {(24), (48), (2, 24), (4, 12), (6, 12)} |
| (7) | {} |
| (8) | {(32), (48), (2, 24), (2, 32), (4, 16), (8, 8)} |
| (9) | {} |
| (10) | {(40), (2, 30)} |
| (12) | {(48)} |
| (2, 2) | {(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, 16), (2, 24), (2, 32), (4, 8), (4, 12), (4, 16), (8, 8)} |
| (2, 6) | {(2, 24), (4, 12)} |
| (2, 8) | {(2, 32), (4, 16), (8, 8)} |

$$g_{\mathbb{Q}}(16) \geq 10 \quad \#\mathcal{G}_{\mathbb{Q}}(16) \geq 336 \quad M_{\mathbb{Q}}(16) \geq 277440$$

| G | $\mathcal{H}_{\mathbb{Q}}(16, E)$ | Label |
|-----|-----------------------------------|---------|
| () | (3, 3) | 245a1 |
| () | (3, 15) | 338d1 |
| () | (5) | 608b1 |
| () | (5, 5) | 6975a1 |
| () | (5, 15) | 225a1 |
| () | (15) | 75a2 |
| () | (17) | 14450n2 |
| () | (21) | 208d1 |
| () | (5), (3, 3) | 361a1 |
| () | (5), (15) | 121b1 |
| () | (15), (3, 3) | 1369e1 |
| () | (15), (5, 5) | 3600bc1 |
| () | (15) ² | 338d2 |
| (2) | (8) | 36a3 |
| (2) | (24) | 144a3 |
| (2) | (2, 6), (4, 8) | 200b1 |
| (2) | (2, 8), (4, 12) | 576a2 |
| (2) | (2, 24), (4, 12) | 36a4 |
| (2) | (8), (2, 6) | 46a1 |
| (2) | (8), (2, 12) | 2352t3 |
| (2) | (8), (2, 24) | 1040g2 |
| (2) | (8), (2, 30) | 450a3 |
| (2) | (8), (4, 12) | 80b1 |
| (2) | (8), (6, 6) | 2205a2 |
| (2) | (24), (2, 12) | 84a4 |
| (2) | (24), (4, 12) | 80b2 |
| (2) | (2, 6), (2, 8), (4, 4) | 128a2 |
| (2) | (2, 6), (2, 16), (4, 8) | 3362a1 |
| (2) | (2, 6), (4, 8) ² | 294f2 |
| (2) | (2, 8), (2, 24) ² | 720j3 |
| (2) | (2, 24) ³ | 960o7 |
| (2) | (2, 24) ² , (4, 12) | 30a3 |
| (2) | (8), (2, 6), (2, 8) | 128a1 |
| (2) | (8), (2, 6), (2, 20) | 1014c1 |
| (2) | (8), (2, 6), (3, 6) | 1568d1 |
| (2) | (8), (2, 6), (4, 4) | 52a1 |
| (2) | (8), (2, 6), (4, 8) | 768a2 |

| G | $\mathcal{H}_{\mathbb{Q}}(16, E)$ | Label |
|-----|---|-----------|
| (2) | (8), (2, 8), (4, 12) | 130a4 |
| (2) | (8), (2, 12) ² | 14a3 |
| (2) | (8), (4, 4), (6, 6) | 173280f2 |
| (2) | (8), (6, 12) ² | 98a3 |
| (2) | (8), (12), (6, 6) | 4107a1 |
| (2) | (8), (20), (2, 6) | 66c3 |
| (2) | (16), (2, 24), (4, 12) | 960e3 |
| (2) | (48), (2, 24), (4, 12) | 960o3 |
| (2) | (2, 6), (2, 8) ² , (4, 4) | 200b2 |
| (2) | (2, 6), (2, 8) ² , (4, 8) | 16810b1 |
| (2) | (2, 6), (2, 8), (3, 6), (4, 4) | 4225j1 |
| (2) | (2, 8), (2, 12) ² , (4, 4) | 900b2 |
| (2) | (2, 8), (2, 12), (4, 4), (6, 6) | 223494n1 |
| (2) | (2, 8), (2, 24) ² , (4, 12) | 150c7 |
| (2) | (2, 12) ² , (4, 8), (6, 6) | 256a1 |
| (2) | (8), (2, 6), (2, 8) ² | 867b1 |
| (2) | (8), (2, 6), (2, 20) ² | 1014c2 |
| (2) | (8), (2, 6), (3, 6), (4, 4) | 126350bb1 |
| (2) | (8), (2, 12) ² , (4, 4) | 20a3 |
| (2) | (8), (2, 12) ² , (6, 12) | 3136k3 |
| (2) | (8), (2, 12), (3, 12), (6, 6) | 726a2 |
| (2) | (8), (2, 16), (4, 8), (6, 6) | 49a1 |
| (2) | (8), (12), (2, 6), (3, 6) | 2205a1 |
| (2) | (8), (12), (2, 12) ² | 726a1 |
| (2) | (8), (12) ² , (6, 6) | 1210a1 |
| (2) | (8), (30), (2, 6), (2, 20) | 14400cg3 |
| (2) | (10), (2, 20), (4, 8), (6, 12) | 288d4 |
| (2) | (12) ² , (2, 6), (4, 8) | 7200bn4 |
| (2) | (16), (2, 6), (2, 8) ² | 294f1 |
| (2) | (16), (2, 24) ² , (4, 12) | 150c8 |
| (2) | (24), (2, 12) ² , (4, 4) | 650j1 |
| (2) | (24), (2, 12) ² , (6, 12) | 98a4 |
| (2) | (30), (40), (2, 6), (2, 20) | 450a4 |
| (2) | (2, 8), (2, 12) ² , (4, 4), (6, 6) | 2304c1 |
| (2) | (2, 8), (2, 12) ² , (4, 8), (6, 6) | 256a2 |
| (2) | (8), (10), (2, 10), (4, 4), (6, 6) | 7200a2 |
| (2) | (8), (10), (2, 10), (4, 4), (6, 12) | 288a1 |

| G | $\mathcal{H}_{\mathbb{Q}}(16, E)$ | Label |
|-----|---|-----------|
| (2) | (8), (12), (2, 6), (3, 6), (4, 4) | 173280f1 |
| (2) | (8), (30), (2, 6), (2, 20) ² | 150b3 |
| (2) | (10), (2, 6), (2, 10), (3, 6), (4, 8) | 2304h2 |
| (2) | (10), (2, 6), (2, 10), (3, 6), (8, 8) | 256b1 |
| (2) | (12) ² , (2, 6), (2, 8) ² | 153c4 |
| (2) | (12) ² , (2, 6), (2, 8), (4, 4) | 153c1 |
| (2) | (12) ² , (2, 6), (2, 8), (4, 8) | 289a3 |
| (2) | (12) ² , (2, 6), (4, 8) ² | 320a4 |
| (2) | (12) ² , (16), (2, 6), (4, 8) | 200c4 |
| (2) | (12), (24), (2, 6), (2, 8), (4, 16) | 277440dv8 |
| (2) | (12), (24), (2, 6), (2, 16), (4, 8) | 441c1 |
| (2) | (16) ² , (2, 6), (2, 8), (4, 4) | 768c1 |
| (2) | (24), (2, 8), (2, 12) ² , (4, 4) | 130a3 |
| (2) | (24), (2, 8), (2, 12), (2, 24), (4, 4) | 30a7 |
| (2) | (24) ² , (2, 8) ² , (4, 12) | 30a8 |
| (2) | (8), (2, 6), (2, 10) ² , (3, 6), (4, 4) | 800d1 |
| (2) | (8), (2, 12) ⁴ , (3, 12) | 112c3 |
| (2) | (8), (10), (2, 6), (2, 10), (3, 6), (4, 4) | 1568a1 |
| (2) | (8), (10), (2, 10), (2, 12), (4, 4), (6, 6) | 576f1 |
| (2) | (8), (10), (2, 10), (2, 12), (4, 4), (6, 12) | 288a2 |
| (2) | (8), (10), (12), (2, 10), (4, 4), (6, 6) | 576f2 |
| (2) | (8), (20), (2, 6), (2, 10), (3, 6), (4, 4) | 800d2 |
| (2) | (10), (12) ² , (2, 20), (4, 8), (6, 6) | 576h1 |
| (2) | (10), (16), (2, 6), (2, 10), (3, 6), (8, 8) | 256b2 |
| (2) | (12) ² , (2, 6), (2, 8) ³ | 33a4 |
| (2) | (12) ² , (2, 6), (2, 8) ² , (4, 4) | 120b1 |
| (2) | (12) ² , (2, 6), (2, 8), (2, 16), (4, 8) | 40a2 |
| (2) | (12) ² , (2, 6), (2, 16) ² , (4, 8) | 600a5 |
| (2) | (12) ² , (16), (2, 6), (2, 8), (4, 4) | 33a2 |
| (2) | (12) ² , (16), (2, 6), (2, 8), (4, 8) | 17a3 |
| (2) | (12) ² , (16) ² , (2, 6), (4, 8) | 360a1 |
| (2) | (12) ² , (20), (2, 20), (4, 8), (6, 6) | 800a4 |
| (2) | (12), (16) ² , (24), (2, 6), (4, 16) | 1200j6 |
| (2) | (12), (16), (24), (2, 6), (2, 16), (4, 8) | 144b6 |
| (2) | (12), (24), (2, 6), (2, 8), (2, 16) ² | 147a3 |
| (2) | (12), (24), (2, 6), (2, 8), (2, 16), (4, 8) | 576i4 |
| (2) | (12), (24), (2, 6), (2, 16) ² , (4, 8) | 306c1 |

| G | $\mathcal{H}_{\mathbb{Q}}(16, E)$ | Label |
|-----|--|----------|
| (2) | (12), (24), (2, 6), (2, 16) ² , (4, 16) | 225c6 |
| (2) | (12), (24), (2, 6), (2, 16) ² , (8, 8) | 192d6 |
| (2) | (12), (24), (2, 6), (2, 16), (2, 32), (4, 8) | 45a1 |
| (2) | (12), (24), (32), (2, 6), (2, 16), (4, 8) | 63a1 |
| (2) | (12), (24), (32) ² , (2, 6), (4, 16) | 25200dz1 |
| (2) | (12), (48), (2, 6), (2, 32) ² , (4, 16) | 3150bk1 |
| (2) | (16) ² , (2, 6), (2, 8), (3, 6), (4, 4) | 49a2 |
| (2) | (16), (24), (2, 8), (2, 12), (2, 24), (4, 4) | 90c5 |
| (2) | (24) ² , (2, 6), (4, 16) ² , (8, 8) | 2880r6 |
| (2) | (24) ² , (2, 8) ³ , (4, 12) | 90c4 |
| (2) | (24) ² , (2, 8) ² , (2, 12), (4, 4) | 210a3 |
| (2) | (10), (2, 6), (2, 8) ² , (2, 10), (3, 6), (4, 8) | 2304h1 |
| (2) | (10), (12) ² , (16), (4, 20), (6, 6), (8, 8) | 64a4 |
| (2) | (12) ² , (2, 6), (2, 8), (2, 16) ² , (4, 8) | 144b5 |
| (2) | (12) ² , (2, 6), (2, 16) ² , (4, 8) ² | 72a3 |
| (2) | (12) ² , (16), (2, 6), (2, 8), (2, 16), (4, 4) | 306c4 |
| (2) | (12) ² , (16), (2, 6), (2, 16) ² , (4, 8) | 192d1 |
| (2) | (12) ² , (16) ² , (2, 6), (2, 8), (4, 4) | 320a1 |
| (2) | (12) ² , (16) ² , (2, 6), (2, 8), (4, 8) | 306c6 |
| (2) | (12) ² , (16) ² , (2, 6), (4, 8) ² | 63a6 |
| (2) | (12) ² , (16) ² , (2, 6), (4, 8), (4, 16) | 4410r6 |
| (2) | (12) ² , (16) ³ , (2, 6), (4, 8) | 600d1 |
| (2) | (12) ² , (32), (2, 6), (2, 16) ² , (4, 8) | 45a3 |
| (2) | (12), (16) ² , (24), (2, 6), (2, 16) ² | 585f6 |
| (2) | (12), (16) ² , (24), (32), (2, 6), (4, 16) | 75b6 |
| (2) | (12), (16), (24), (2, 6), (2, 8), (2, 16) ² | 120a6 |
| (2) | (12), (16), (24), (2, 6), (2, 8), (2, 16), (4, 8) | 192c4 |
| (2) | (12), (16), (24), (2, 6), (2, 16) ² , (4, 8) | 126b1 |
| (2) | (12), (16), (24), (2, 6), (2, 16) ² , (8, 8) | 24a6 |
| (2) | (12), (16), (24), (32), (2, 6), (2, 8), (4, 16) | 510e7 |
| (2) | (12), (16), (24), (32), (2, 6), (2, 16), (4, 8) | 1344g1 |
| (2) | (12), (24), (2, 6), (2, 8), (2, 16) ² , (4, 8) | 126b5 |
| (2) | (12), (24), (2, 6), (2, 8), (2, 16) ² , (4, 16) | 48a4 |
| (2) | (12), (24), (32), (2, 6), (2, 8), (2, 16), (4, 8) | 1344g4 |
| (2) | (12), (24), (32), (2, 6), (2, 16), (2, 32), (4, 8) | 75b1 |
| (2) | (12), (24), (32) ² , (2, 6), (2, 8), (4, 16) | 1470k3 |
| (2) | (12), (24), (32) ² , (2, 6), (2, 16), (4, 8) | 630c1 |

| G | $\mathcal{H}_{\mathbb{Q}}(16, E)$ | Label |
|-----|--|---------|
| (2) | (10), (12), (2, 6), (2, 8), (2, 16), (2, 20), (3, 12), (4, 8) | 64a2 |
| (2) | (10), (20) ² , (2, 8), (2, 10), (2, 12), (3, 12), (4, 4) | 288d3 |
| (2) | (12) ² , (2, 6), (2, 8), (2, 16) ³ , (4, 8) | 24a5 |
| (2) | (12) ² , (2, 6), (2, 16) ⁴ , (4, 8) | 6720c6 |
| (2) | (12) ² , (2, 6), (2, 16) ³ , (4, 8) ² | 15a5 |
| (2) | (12) ² , (16), (2, 6), (2, 8) ² , (2, 16), (4, 4) | 45a7 |
| (2) | (12) ² , (16), (2, 6), (2, 8), (2, 16) ² , (4, 8) | 120a5 |
| (2) | (12) ² , (16), (2, 6), (2, 16) ² , (4, 8) ² | 48a2 |
| (2) | (12) ² , (16) ² , (2, 6), (2, 8) ² , (4, 4) | 525b6 |
| (2) | (12) ² , (16) ² , (2, 6), (2, 8), (2, 16), (4, 4) | 45a8 |
| (2) | (12) ² , (16) ² , (2, 6), (2, 8), (2, 16), (4, 8) | 21a5 |
| (2) | (12) ² , (16) ² , (2, 6), (2, 16) ² , (4, 8) | 1050c6 |
| (2) | (12) ² , (16) ³ , (2, 6), (2, 8), (4, 4) | 525b5 |
| (2) | (12) ² , (16) ³ , (2, 6), (2, 8), (4, 8) | 231a5 |
| (2) | (12) ² , (16) ³ , (2, 6), (4, 8) ² | 21a6 |
| (2) | (12) ² , (16) ⁴ , (2, 6), (4, 8) | 2925g6 |
| (2) | (12) ² , (16) ⁴ , (2, 6), (8, 8) | 6150n6 |
| (2) | (12) ² , (16), (32), (2, 6), (2, 8), (2, 16), (4, 4) | 585f1 |
| (2) | (12) ² , (32), (2, 6), (2, 8), (2, 16) ² , (4, 8) | 225c3 |
| (2) | (12) ² , (32) ² , (2, 6), (2, 16) ² , (4, 8) | 1200j1 |
| (2) | (12), (16) ² , (24), (2, 6), (2, 16) ² , (8, 8) | 45a6 |
| (2) | (12), (16), (24), (32), (2, 6), (2, 8), (2, 16), (4, 8) | 294c5 |
| (2) | (12), (16), (24), (32) ² , (2, 6), (2, 8), (4, 16) | 1680p1 |
| (2) | (12), (16), (24), (32) ² , (2, 6), (2, 16), (4, 8) | 4800cd8 |
| (2) | (12), (24), (32) ² , (2, 6), (2, 8), (2, 16), (4, 8) | 4800cd7 |
| (2) | (10), (12), (20) ² , (2, 6), (2, 8), (2, 10), (3, 12), (4, 4) | 288d2 |
| (2) | (10), (12), (40), (2, 6), (2, 8), (2, 16), (2, 20), (3, 12), (4, 8) | 32a3 |
| (2) | (12) ² , (2, 6), (2, 16) ⁴ , (4, 8) ² | 1470k6 |
| (2) | (12) ² , (16) ² , (2, 6), (2, 8) ² , (2, 16), (4, 4) | 441c5 |
| (2) | (12) ² , (16) ² , (2, 6), (2, 16) ² , (4, 8) ² | 630c6 |
| (2) | (12) ² , (16) ⁴ , (2, 6), (4, 8) ² | 975a6 |
| (2) | (12) ² , (16) ² , (32), (2, 6), (2, 8), (2, 16), (4, 4) | 225c8 |
| (2) | (12) ² , (16) ² , (32), (2, 6), (2, 16) ² , (4, 8) | 3150bk6 |
| (2) | (12) ² , (16), (32), (2, 6), (2, 8) ² , (2, 16), (4, 4) | 225c7 |
| (2) | (12) ² , (16), (32), (2, 6), (2, 8), (2, 16) ² , (4, 8) | 1230f7 |
| (2) | (12), (16), (24), (32) ² , (2, 6), (2, 8), (2, 16), (4, 8) | 6720cd1 |
| (2) | (10), (12) ² , (20) ² , (2, 6), (2, 8), (2, 10), (3, 6), (4, 4) | 800a2 |

| G | $\mathcal{H}_{\mathbb{Q}}(16, E)$ | Label |
|-----|---|-----------|
| (2) | $(12)^2, (16)^2, (32), (2, 6), (2, 8)^2, (2, 16), (4, 4)$ | 1470k7 |
| (2) | $(12)^2, (16), (32)^2, (2, 6), (2, 8), (2, 16)^2, (4, 8)$ | 240d1 |
| (2) | $(12)^2, (20)^3, (2, 6), (2, 8), (2, 10), (3, 6), (4, 4)$ | 800a3 |
| (3) | $(5, 15)$ | 225b1 |
| (4) | (16) | 150c3 |
| (4) | $(2, 24), (4, 16)$ | 294c1 |
| (4) | $(16), (2, 12)$ | 33a3 |
| (4) | $(16), (2, 24)$ | 2352v4 |
| (4) | $(16), (4, 12)$ | 40a4 |
| (4) | $(2, 12), (2, 16), (4, 8)$ | 289a1 |
| (4) | $(16), (2, 12), (4, 16)$ | 277440dv7 |
| (4) | $(16), (2, 24)^2$ | 720j8 |
| (4) | $(16), (2, 24), (4, 12)$ | 1050k1 |
| (4) | $(16), (2, 24), (8, 8)$ | 192c6 |
| (4) | $(48), (2, 24), (4, 12)$ | 960o8 |
| (4) | $(2, 12), (2, 16)^2, (4, 8)$ | 40a3 |
| (4) | $(2, 12), (2, 16)^2, (4, 16)$ | 72a1 |
| (4) | $(16), (2, 12), (2, 16)^2$ | 2880be6 |
| (4) | $(16), (2, 12), (2, 16), (4, 8)$ | 17a4 |
| (4) | $(16), (2, 12), (4, 8)^2$ | 17a1 |
| (4) | $(16), (2, 24)^2, (4, 12)$ | 90c1 |
| (4) | $(2, 12), (2, 16)^3, (4, 8)$ | 63a5 |
| (4) | $(2, 12), (2, 16)^2, (4, 8)^2$ | 75b8 |
| (4) | $(16), (2, 12), (2, 16)^2, (4, 8)$ | 1287e5 |
| (4) | $(16), (2, 12), (2, 16)^2, (8, 8)$ | 3264h6 |
| (4) | $(16), (2, 12), (2, 16), (2, 32), (4, 8)$ | 225c1 |
| (4) | $(16), (2, 12), (2, 16), (4, 8)^2$ | 144b4 |
| (4) | $(16), (2, 24), (2, 32)^2, (4, 16)$ | 1470k1 |
| (4) | $(16), (20), (4, 20), (6, 12), (8, 8)$ | 32a1 |
| (4) | $(24)^2, (2, 12), (2, 16)^2$ | 240a6 |
| (4) | $(24)^2, (2, 12), (2, 16), (4, 8)$ | 240a5 |
| (4) | $(16), (2, 12), (2, 16)^2, (4, 8)^2$ | 1008k6 |
| (4) | $(24)^2, (2, 12), (2, 16)^2, (4, 8)$ | 231a1 |
| (4) | $(24)^2, (2, 12), (2, 16)^2, (4, 16)$ | 24a4 |
| (4) | $(24)^2, (2, 12), (2, 16)^2, (8, 8)$ | 816h6 |
| (4) | $(24)^2, (2, 12), (2, 16), (4, 8)^2$ | 24a3 |
| (4) | $(24)^2, (2, 24), (4, 16)^2, (8, 8)$ | 240d6 |

| G | $\mathcal{H}_{\mathbb{Q}}(16, E)$ | Label |
|--------|--|--------|
| (4) | $(24)^2, (32), (2, 12), (2, 16), (4, 8)$ | 21a4 |
| (4) | $(20), (2, 12), (2, 16)^2, (2, 20), (3, 12), (4, 8)$ | 64a3 |
| (4) | $(24)^2, (2, 12), (2, 16)^3, (4, 8)$ | 120a1 |
| (4) | $(24)^2, (2, 12), (2, 16)^2, (4, 8)^2$ | 120a4 |
| (4) | $(24)^2, (2, 12), (2, 16)^2, (4, 8), (4, 16)$ | 1680p6 |
| (4) | $(24)^2, (32), (2, 12), (2, 16)^2, (4, 8)$ | 48a5 |
| (4) | $(24)^2, (32), (2, 12), (2, 16), (2, 32), (4, 8)$ | 15a7 |
| (4) | $(24)^2, (32), (2, 12), (2, 16), (4, 8)^2$ | 42a4 |
| (4) | $(24)^2, (32)^2, (2, 12), (2, 16), (4, 8)$ | 195a1 |
| (4) | $(24)^2, (32)^3, (2, 12), (4, 16)$ | 1230f4 |
| (4) | $(20), (40), (2, 12), (2, 16)^2, (2, 20), (3, 12), (4, 8)$ | 32a4 |
| (4) | $(24)^2, (2, 12), (2, 16)^4, (4, 8)$ | 195a6 |
| (4) | $(24)^2, (2, 12), (2, 16)^4, (8, 8)$ | 510e6 |
| (4) | $(24)^2, (32)^3, (2, 12), (2, 16), (4, 8)$ | 510e1 |
| (4) | $(24)^2, (32)^2, (2, 12), (2, 16)^2, (4, 8)^2$ | 240d7 |
| (4) | $(24)^2, (32)^2, (2, 12), (2, 16)^2, (4, 8), (4, 16)$ | 210e6 |
| (6) | (24) | 14a4 |
| (6) | $(2, 24), (4, 12)$ | 36a2 |
| (6) | $(24), (2, 24)$ | 130a2 |
| (6) | $(24), (4, 12)$ | 20a1 |
| (6) | $(2, 24)^3$ | 90c7 |
| (6) | $(2, 24)^2, (4, 12)$ | 30a1 |
| (6) | $(24), (6, 12)^2$ | 14a1 |
| (6) | $(48), (2, 24), (4, 12)$ | 90c8 |
| (8) | $(32), (2, 24)$ | 21a3 |
| (8) | $(32), (2, 24), (4, 16)$ | 42a1 |
| (8) | $(32), (2, 24), (8, 8)$ | 48a6 |
| (8) | $(32), (2, 24), (2, 32)^2, (4, 16)$ | 1230f1 |
| (8) | $(32), (2, 24), (4, 16)^2, (8, 8)$ | 15a4 |
| (8) | $(48)^2, (2, 24), (2, 32)^2, (4, 16)$ | 210e1 |
| (10) | $(40), (2, 30)$ | 66c1 |
| (12) | (48) | 90c3 |
| (2, 2) | $(2, 8)^2$ | 960o6 |
| (2, 2) | $(2, 12), (8, 8)$ | 576d2 |
| (2, 2) | $(2, 24), (8, 8)$ | 72a4 |
| (2, 2) | $(2, 8)^3$ | 153c2 |
| (2, 2) | $(2, 8)^2, (2, 12)$ | 33a1 |

| G | $\mathcal{H}_{\mathbb{Q}}(16, E)$ | Label |
|--------|--|--------|
| (2, 2) | $(2, 8)^2, (2, 24)$ | 63a2 |
| (2, 2) | $(2, 8)^2, (4, 8)$ | 320a2 |
| (2, 2) | $(2, 8), (2, 12), (4, 8)$ | 525b3 |
| (2, 2) | $(2, 8), (2, 24)^2$ | 720j6 |
| (2, 2) | $(2, 12)^2, (8, 8)$ | 3264h3 |
| (2, 2) | $(2, 12), (2, 16), (8, 8)$ | 192d2 |
| (2, 2) | $(2, 12), (4, 8)^2$ | 200c2 |
| (2, 2) | $(2, 24)^3$ | 150c6 |
| (2, 2) | $(2, 8)^3, (4, 4)$ | 120b2 |
| (2, 2) | $(2, 8)^3, (4, 12)$ | 240b2 |
| (2, 2) | $(2, 8)^2, (2, 12), (2, 16)$ | 600a3 |
| (2, 2) | $(2, 8)^2, (2, 12), (4, 8)$ | 990c2 |
| (2, 2) | $(2, 8)^2, (2, 12), (4, 16)$ | 1200j2 |
| (2, 2) | $(2, 8)^2, (2, 24), (4, 12)$ | 30a6 |
| (2, 2) | $(2, 8)^2, (2, 24), (4, 16)$ | 630c2 |
| (2, 2) | $(2, 8), (2, 12), (4, 8)^2$ | 306c3 |
| (2, 2) | $(2, 12)^2, (2, 16), (8, 8)$ | 45a4 |
| (2, 2) | $(2, 12)^2, (4, 8)^2$ | 600a2 |
| (2, 2) | $(2, 12)^2, (4, 16), (8, 8)$ | 6150n3 |
| (2, 2) | $(2, 12), (2, 16)^2, (8, 8)$ | 144b3 |
| (2, 2) | $(2, 12), (4, 8)^3$ | 289a2 |
| (2, 2) | $(2, 8)^2, (2, 12), (2, 16)^2$ | 441c2 |
| (2, 2) | $(2, 8)^2, (2, 12), (2, 16), (4, 8)$ | 525b2 |
| (2, 2) | $(2, 8)^2, (2, 12), (2, 16), (4, 16)$ | 45a2 |
| (2, 2) | $(2, 8)^2, (2, 24), (2, 32), (4, 16)$ | 75b2 |
| (2, 2) | $(2, 8), (2, 12), (2, 16), (4, 8)^2$ | 126b2 |
| (2, 2) | $(2, 10), (2, 12), (4, 20), (6, 6), (8, 8)$ | 64a1 |
| (2, 2) | $(2, 10), (2, 12), (4, 20), (6, 12), (8, 8)$ | 32a2 |
| (2, 2) | $(2, 12)^3, (2, 16), (8, 8)$ | 24a2 |
| (2, 2) | $(2, 12)^3, (4, 8)^2$ | 240a2 |
| (2, 2) | $(2, 12)^2, (2, 16)^2, (8, 8)$ | 192c3 |
| (2, 2) | $(2, 12)^2, (2, 16), (4, 8)^2$ | 63a4 |
| (2, 2) | $(2, 12)^2, (4, 8)^3$ | 17a2 |
| (2, 2) | $(2, 12)^2, (4, 8)^2, (4, 16)$ | 225c2 |
| (2, 2) | $(2, 12)^2, (4, 16)^2, (8, 8)$ | 1200j4 |
| (2, 2) | $(2, 12), (2, 16)^3, (8, 8)$ | 630c5 |
| (2, 2) | $(2, 12), (2, 16), (4, 8)^3$ | 147a4 |

| G | $\mathcal{H}_{\mathbb{Q}}(16, E)$ | Label |
|--------|---|-----------|
| (2, 2) | (2, 12), (2, 24), (4, 16) ² , (8, 8) | 75b3 |
| (2, 2) | (2, 8) ² , (2, 10), (2, 20), (4, 8), (6, 6) | 800a1 |
| (2, 2) | (2, 8) ² , (2, 12), (2, 16) ³ | 975a2 |
| (2, 2) | (2, 8) ² , (2, 12), (2, 16) ² , (4, 8) | 960g2 |
| (2, 2) | (2, 8) ² , (2, 12), (2, 16) ² , (4, 16) | 6150n2 |
| (2, 2) | (2, 12) ³ , (2, 16) ² , (8, 8) | 42a3 |
| (2, 2) | (2, 12) ³ , (2, 16), (4, 8) ² | 21a2 |
| (2, 2) | (2, 12) ³ , (4, 8) ³ | 231a3 |
| (2, 2) | (2, 12) ² , (2, 16) ³ , (8, 8) | 75b5 |
| (2, 2) | (2, 12) ² , (2, 16) ² , (4, 8) ² | 40a1 |
| (2, 2) | (2, 12) ² , (2, 16), (4, 8) ² , (4, 16) | 3150bk4 |
| (2, 2) | (2, 12) ² , (2, 24), (4, 16) ² , (8, 8) | 510e5 |
| (2, 2) | (2, 12), (2, 16) ² , (4, 8) ³ | 585f5 |
| (2, 2) | (2, 8) ² , (2, 10), (2, 12), (2, 20), (4, 8), (6, 6) | 576h2 |
| (2, 2) | (2, 8) ² , (2, 10), (2, 12), (2, 20), (4, 8), (6, 12) | 288d1 |
| (2, 2) | (2, 8) ² , (2, 12), (2, 16) ³ , (4, 8) | 975a5 |
| (2, 2) | (2, 12) ³ , (2, 16), (4, 8) ² , (4, 16) | 240d2 |
| (2, 2) | (2, 12) ² , (2, 16) ⁴ , (8, 8) | 6720cd4 |
| (2, 2) | (2, 12) ² , (2, 16) ² , (4, 8) ² , (4, 16) | 130050bu2 |
| (2, 2) | (2, 12), (2, 16) ³ , (4, 8) ³ | 45a5 |
| (2, 2) | (2, 12) ³ , (2, 16) ⁴ , (8, 8) | 15a2 |
| (2, 2) | (2, 12) ³ , (2, 16) ³ , (4, 8) ² | 195a5 |
| (2, 2) | (2, 12) ³ , (2, 16) ² , (4, 8) ² , (4, 16) | 1230f5 |
| (2, 2) | (2, 12) ³ , (2, 16) ⁵ , (8, 8) | 210e5 |
| (2, 4) | (2, 16) ² , (4, 12) | 195a3 |
| (2, 4) | (2, 16) ² , (8, 8) | 24a1 |
| (2, 4) | (2, 16), (2, 24), (8, 8) | 42a2 |
| (2, 4) | (2, 16) ² , (4, 8) ² | 120a2 |
| (2, 4) | (2, 16), (2, 24), (4, 8) ² | 21a1 |
| (2, 4) | (2, 24), (4, 8) ² , (4, 16) | 510e2 |
| (2, 4) | (2, 16) ² , (4, 8) ³ | 231a2 |
| (2, 4) | (2, 16) ² , (4, 12), (4, 16), (8, 8) | 510e3 |
| (2, 4) | (2, 24) ² , (4, 16) ² , (8, 8) | 1230f2 |
| (2, 4) | (2, 24), (4, 12), (4, 16) ² , (8, 8) | 15a1 |
| (2, 4) | (2, 16) ² , (4, 12), (4, 16) ² , (8, 8) | 240d4 |
| (2, 4) | (2, 16), (2, 24), (2, 32), (4, 8) ² , (4, 16) | 15a3 |
| (2, 4) | (2, 24) ² , (4, 12), (4, 16) ² , (8, 8) | 210e3 |

| G | $\mathcal{H}_{\mathbb{Q}}(16, E)$ | Label |
|--------|-----------------------------------|-------|
| (2, 6) | $(2, 24)^2$ | 90c6 |
| (2, 6) | $(2, 24)^3, (4, 12)$ | 30a2 |
| (2, 8) | $(2, 32)^2, (4, 16)^2, (8, 8)$ | 210e2 |