**Náyte (base-60) multiplication**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| /10 | /6\_ | /8@ | /3@ | /0@ | /½ |  | 2/3@ | 3/8@ | /6 |  | /5 | /4 | /3 | 2/5 | /2 | 3/5 | 2/3 | 3/4 | 4/5 |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ½ | ¼ | 0@ | 3@ | 8@ | 0\_ | 6\_ | 0\_@ | 4\_@ | 9\_@ | 0: | 10 |
| 2 | 4 | 6 | 8 | ½ | 0@ | 2@ | 4@ | 6@ | 8@ | ½@ | 0\_ | 6\_ | 4\_@ | 0: | 10 | 10@ | 18@ | 16\_ | 10\_@ | 20 |
| 3 | 6 | 9 | 0@ | 3@ | 6@ | 9@ | 0\_ | 3\_ | 6\_ | 9\_ | 0\_@ | 9@ | 10 | 10@ | 16\_ | 10: | 20 | 23@ | 20\_ | 30 |
| 4 | 8 | 0@ | 4@ | 8@ | 0\_ | 4\_ | 8\_ | 0\_@ | 4@\_ | 8\_@ | 0: | 10 | 18@ | 10\_@ | 20 | 20\_ | 24\_@ | 30 | 30@ | 40 |
| 5 | ½ | 3@ | 8@ | 1\_ | 6\_ | ¼\_ | 4\_@ | 9\_@ | 2: | 7: | 10 | 13@ | 14\_@ | 20 | 26\_ | 30 | 38@ | 39@\_ | 40 | 50 |
| 6 | 0@ | 6@ | 0\_ | 6\_ | 0\_@ | 6\_@ | 0: | 6: | 10 | 16 | 10@ | 16\_ | 20 | 20\_ | 30 | 30\_@ | 40 | 46\_ | 40: | 60 |
| 7 | 2@ | 9@ | 4\_ | ¼\_ | 6\_@ | 1: | 8: | 13 | 1½ | 15@ | 10\_ | 19\_@ | 28@ | 20: | 36\_ | 40@ | 44\_@ | 53@ | 50\_@ | 70 |
| 8 | 4@ | 0\_ | 8\_ | 4\_@ | 0: | 8: | 14 | 10@ | 18@ | 14\_ | 10\_@ | 20 | 24\_@ | 30@ | 40 | 40: | 58@ | 60 | 60\_ | 80 |
| 9 | 6@ | 3\_ | 0\_@ | 9\_@ | 6: | 13 | 10@ | 19@ | 16\_ | 13\_@ | 10: | 23@ | 30 | 30\_@ | 46\_ | 50\_ | 60 | 69@\_ | 70@ | 90 |
| ½ | 8@ | 6\_ | 4\_@ | 2: | 10 | 1½ | 18@ | 16\_ | 14\_@ | 12: | 20 | 26\_ | 38@ | 40 | 50 | 60 | 64\_@ | 76\_ | 80 | ½0 |
| ¼ | ½@ | 9\_ | 8\_@ | 7: | 16 | 15@ | 14\_ | 13@\_ | 12: | 21 | 20@ | 29\_@ | 34\_@ | 40\_ | 56\_ | 60\_@ | 78@ | 83@ | 80: | ¼0 |
| 0@ | 0\_ | 0\_@ | 0: | 10 | 10@ | 10\_ | 10\_@ | 10: | 20 | 20@ | 20\_ | 30 | 40 | 40: | 60 | 70@ | 80 | 90 | 90\_@ | 0@0 |
| 3@ | 6\_ | 9@ | 10 | 13@ | 16\_ | 19\_@ | 20 | 23@ | 26\_ | 29\_@ | 30 | 39@\_ | 50 | 60 | 76\_ | 90 | ½0 | ¼3@ | 0@0 | 3@0 |
| 8@ | 4\_@ | 10 | 18@ | 14\_@ | 20 | 28@ | 24\_@ | 30 | 38@ | 34\_@ | 40 | 50 | 64\_@ | 80 | ½0 | 0@0 | 1@8@ | 3@0 | 4@0 | 8@0 |
| 0\_ | 0: | 10@ | 10\_@ | 20 | 20\_ | 20: | 30@ | 30\_@ | 40 | 40\_ | 40: | 60 | 80 | 90\_@ | 0@0 | 2@0\_ | 4@0 | 6@0 | 7@0@ | 0\_0 |
| 6\_ | 10 | 16\_ | 20 | 26\_ | 30 | 36\_ | 40 | 46\_ | 50 | 56\_ | 60 | 76\_ | ½0 | 0@0 | 3@0 | 6@0 | 8@0 | ½@6\_ | 0\_0 | 6\_0 |
| 0\_@ | 10@ | 10: | 20\_ | 30 | 30\_@ | 40@ | 40: | 50\_ | 60 | 60\_@ | 70@ | 90 | 0@0 | 2@0\_ | 6@0 | 9@0\_@ | 0\_0 | 3\_0 | 4\_0: | 0\_@0 |
| 4\_@ | 18@ | 20 | 24\_@ | 38@ | 40 | 44\_@ | 58@ | 60 | 64\_@ | 78@ | 80 | ½0 | 1@8@ | 4@0 | 8@0 | 0\_0 | 2\_4\_@ | 6\_0 | 8\_0 | 4\_@0 |
| 9\_@ | 16\_ | 23@ | 30 | 39@\_ | 46\_ | 53@ | 60 | 69@\_ | 76\_ | 83@ | 90 | ¼3@ | 3@0 | 6@0 | ½@6\_ | 3\_0 | 6\_0 | 9\_9\_@ | 0\_@0 | 9\_@0 |
| 0: | 10\_@ | 20\_ | 30@ | 40 | 40: | 50\_@ | 60\_ | 70@ | 80 | 80: | 90\_@ | 0@0 | 4@0 | 7@0@ | 0\_0 | 4\_0: | 8\_0 | 0\_@0 | 2\_@0\_ | 0:0 |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | ½0 | ¼0 | 0@0 | 3@0 | 8@0 | 0\_0 | 6\_0 | 0\_@0 | 4\_@0 | 9\_@0 | 0:0 | 100 |

**Squares and cubes**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ½ | ¼ | 0@ | 3@ | 8@ | 0\_ | 6\_ | 0\_@ | 4\_@ | 9\_@ | 0: | 10 |
| .D+ | 4 | 9 | 4@ | 1\_ | 0\_@ | 1: | 14 | 19@ | 14\_@ | 21 | 20\_ | 39@\_ | 64\_@ | 90\_@ | 3@0 | 9@0\_@ | 2\_4\_@ | 9\_9\_@ | 2\_@0\_ | 100 |
| w%`@^o | 8 | 3\_ | 14 | 25 | 30\_@ | 57\_@ | 88\_ | 0@9 | 4@4\_@ | ½@¼ | 4\_0: | 8:3@ | 21@8@ | 32:0\_ | 76\_0 | 0@9:0\_@ | 5@½\_@4\_@ | 1\_6@9\_@ | 6\_7\_@0@ | 1000 |
| ./p% | 1?1\_ | 1?8\_@ | 2 | 2?2@ | 2?3\_ | 2?3\_@ | 2?2: | 3 | 3?½ | 3?7@ | 3?4\_ | 3?4: | 4?4\_ | 4?6: | 5?5\_ | 6 | 6?7@ | 6?6\_@ | 6?8: | 7?9\_@ |

**Náyte (base-60) multiplication**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1/60 | 1/30 | 1/20 | 1/15 | 1/12 | 1/10 |  | 2/15 | 3/20 | 1/6 |  | 1/5 | 1/4 | 1/3 | 2/5 | 1/2 | 3/5 | 2/3 | 3/4 | 4/5 |  |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 | 20 | 24 | 30 | 36 | 40 | 45 | 48 | 60 |
| 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 30 | 40 | 48 | 1:0  (60) | 1:12  (72) | 1:20  (80) | 1:30  (90) | 1:36  (96) | 2:0  (120) |
| 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 45 | 1:0  (60) | 1:12  (72) | 1:30  (90) | 1:48  (108) | 2:0  (120) | 2:15  (135) | 2:24  (144) | 3:0  (180) |
| 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 1:0  (60) | 1:20  (80) | 1:36  (96) | 2:0  (120) | 2:24  (144) | 2:40  (160) | 3:0  (180) | 3:12  (192) | 4:0  (240) |
| 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 1:0  (60) | 1:15  (75) | 1:40  (100) | 2:0  (120) | 2:30  (150) | 3:0  (180) | 3:20  (200) | 3:45  (135) | 4:0  (240) | 5:0  (300) |
| 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 1:0  (60) | 1:6  (66) | 1:12  (72) | 1:30  (90) | 2:0  (120) | 2:24  (144) | 3:0  (180) | 3:36  (216) | 4:0  (240) | 4:30  (270) | 4:48  (288) | 6:0  (360) |
| 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 1:3  (63) | 1:10  (70) | 1:17  (77) | 1:24  (84) | 1:45  (105) | 2:20  (140) | 2:48  (168) | 3:30  (210) | 4:12  (252) | 4:40  (280) | 5:15  (315) | 5:36  (336) | 7:0  (420) |
| 8 | 16 | 24 | 32 | 40 | 48 | 56 | 1:4  (64) | 1:12  (72) | 1:20  (80) | 1:28  (88) | 1:36  (96) | 2:0  (120) | 2:40  (160) | 3:12  (192) | 4:0  (240) | 4:48  (288) | 5:20  (320) | 6:0  (360) | 6:24  (384) | 8:0  (480) |
| 9 | 18 | 27 | 36 | 45 | 54 | 1:3  (63) | 1:12  (72) | 1:21  (81) | 1:30  (90) | 1:39  (99) | 1:48  (108) | 2:15  (135) | 3:0  (180) | 3:36  (216) | 4:30  (270) | 5:24  (324) | 6:0  (360) | 6:45  (405) | 7:12  (432) | 9:0  (540) |
| 10 | 20 | 30 | 40 | 50 | 1:0  (60) | 1:10  (70) | 1:20  (80) | 1:30  (90) | 1:40  (100) | 1:50  (110) | 2:0  (120) | 2:30  (150) | 3:20  (200) | 4:0  (240) | 5:0  (300) | 6:0  (360) | 6:40  (400) | 7:30  (450) | 8:0  (480) | 10:0  (600) |
| 11 | 22 | 33 | 44 | 55 | 1:6  (66) | 1:17  (77) | 1:28  (88) | 1:39  (99) | 1:50  (110) | 2:1  (121) | 2:12  (132) | 2:45  (165) | 3:40  (220) | 4:24  (264) | 5:30  (330) | 6:36  (396) | 7:20  (440) | 8:15  (495) | 8:48  (528) | 11:0  (660) |
| 12 | 24 | 36 | 48 | 1:0  (60) | 1:12  (72) | 1:24  (84) | 1:36  (96) | 1:48  (108) | 2:0  (120) | 2:12  (132) | 2:24  (144) | 3:0  (180) | 4:0  (240) | 4:48  (288) | 6:0  (360) | 7:12  (432) | 8:0  (480) | 9:0  (540) | 9:36  (576) | 12:0  (720) |
| 15 | 30 | 45 | 1:0  (60) | 1:15  (75) | 1:30  (90) | 1:45  (105) | 2:0  (120) | 2:15  (135) | 2:30  (150) | 2:45  (165) | 3:0  (180) | 3:45  (225) | 5:0  (300) | 6:0  (360) | 7:30  (450) | 9:0  (540) | 10:0  (600) | 11:15  (675) | 12:0  (720) | 15:0  (900) |
| 20 | 40 | 1:0  (60) | 1:20  (80) | 1:40  (100) | 2:0  (120) | 2:20  (140) | 2:40  (160) | 3:0  (180) | 3:20  (200) | 3:40  (220) | 4:0  (240) | 5:0  (300) | 6:40  (400) | 8:0  (480) | 10:0  (600) | 12:0  (720) | 13:20  (800) | 15:0  (900) | 16:0  (960) | 20:0  (1200) |
| 24 | 48 | 1:12  (72) | 1:36  (96) | 2:0  (120) | 2:24  (144) | 2:48  (168) | 3:12  (192) | 3:36  (216) | 4:0  (240) | 4:24  (264) | 4:48  (288) | 6:0  (360) | 8:0  (480) | 9:36  (576) | 12:0  (720) | 14:24  (864) | 16:0  (960) | 18:0  (1080) | 19:12  (1152) | 24:0  (1440) |
| 30 | 1:0  (60) | 1:30  (90) | 2:0  (120) | 2:30  (150) | 3:0  (180) | 3:30  (210) | 4:0  (240) | 4:30  (270) | 5:0  (300) | 5:30  (330) | 6:0  (360) | 7:30  (450) | 10:0  (600) | 12:0  (720) | 15:0  (900) | 18:0  (1080) | 20:0  (1200) | 22:30  (1350) | 24:0  (1440) | 30:0  (1800) |
| 36 | 1:12  (72) | 1:48  (108) | 2:24  (144) | 3:0  (180) | 3:36  (216) | 4:12  (252) | 4:48  (288) | 5:24  (324) | 6:0  (360) | 6:36  (396) | 7:12  (432) | 9:0  (540) | 12:0  (720) | 14:24  (864) | 18:0  (1080) | 21:36  (1296) | 24:0  (1440) | 27:0  (1620) | 28:48  (1728) | 36:0  (2160) |
| 40 | 1:20  (80) | 2:0  (120) | 2:40  (160) | 3:20  (200) | 4:0  (240) | 4:40  (280) | 5:20  (320) | 6:0  (360) | 6:40  (400) | 7:20  (440) | 8:0  (480) | 10:0  (600) | 13:20  (800) | 16:0  (960) | 20:0  (1200) | 24:0  (1440) | 26:40  (1600) | 30:0  (1800) | 32:0  (1920) | 40:0  (2400) |
| 45 | 1:30  (90) | 2:15  (135) | 3:0  (180) | 3:45  (135) | 4:30  (270) | 5:15  (315) | 6:0  (360) | 6:45  (405) | 7:30  (450) | 8:15  (495) | 9:0  (540) | 11:15  (675) | 15:0  (900) | 18:0  (1080) | 22:30  (1350) | 27:0  (1620) | 30:0  (1800) | 33:45  (2025) | 36:0  (2160) | 45:0  (2700) |
| 48 | 1:36  (96) | 2:24  (144) | 3:12  (192) | 4:0  (240) | 4:48  (288) | 5:36  (336) | 6:24  (384) | 7:12  (432) | 8:0  (480) | 8:48  (528) | 9:36  (576) | 12:0  (720) | 16:0  (960) | 19:12  (1152) | 24:0  (1440) | 28:48  (1728) | 32:0  (1920) | 36:0  (2160) | 38:24  (2304) | 48:0  (2880) |
| 60 | 2:0  (120) | 3:0  (180) | 4:0  (240) | 5:0  (300) | 6:0  (360) | 7:0  (420) | 8:0  (480) | 9:0  (540) | 10:0  (600) | 11:0  (660) | 12:0  (720) | 15:0  (900) | 20:0  (1200) | 24:0  (1440) | 30:0  (1800) | 36:0  (2160) | 40:0  (2400) | 45:0  (2700) | 48:0  (2880) | 1:0:0  (3600) |

**Squares and cubes**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 | 20 | 24 | 30 | 36 | 40 | 45 | 48 | 60 |
| x2 | 4 | 9 | 16 | 25 | 36 | 49 | 1:4  (64) | 1:21  (81) | 1:40  (100) | 2:1  (121) | 2:24  (144) | 3:45  (225) | 6:40  (400) | 9:36  (576) | 15:0  (900) | 21:36  (1296) | 26:40  (1600) | 33:45  (2025) | 38:24  (2304) | 1:0:0  (3600) |
| x3 | 8 | 27 | 1:4  (64) | 2:5  (125) | 3:36  (216) | 5:43  (343) | 8:32  (512) | 12:9  (729) | 16:40  (1000) | 22:11  (1331) | 28:48  (1728) | 56:15  (3375) | 2:13:20  (8000) | **3:50:24**  (13,824) | 7:30:0  (27,000) | **12:57:36**  (46,656) | **17:46:40**  (64,000) | **25:18:45**  (91,125) | **30:43:12**  (110,592) | 1:0:0:0  (216,000) |
| √x | 1 25’  (1.416) | 1 44’  (1.733) | 2 | 2 14’  (2.233) | 2 27’  (2.45) | 2 39’  (2.65) | 2 50’  (2.833) | 3 | 3 10’  (3.167) | 3 19’  (3.317) | 3 28’  (3.467) | 3 52’  (3.867) | 4 28’  (4.467) | 4 54’  (4.9) | 5 29’  (5.483) | 6 | 6 19’  (6.317) | 6 42’  (6.7) | 6 56’  (6.933) | 7 45’  (7.75) |

**Imperial coinage multiplication**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Q | C | m | 1 | 2 | 5 | 10 | 1. | 2. | 5. | 1\* | 2\* | 5\* |
| 2 | C | m | 1 | 2 | 4 | 10 | 1. | 2. | 4. | 10. | 2\* | 4\* | 10\* |
| 3 | 3Q | 3C | 1,m | 3 | 6 | 15 | 1.10 | 3. | 6. | 1\* | 3\* | 6\* | 15\* |
| 4 | m | 1 | 2 | 4 | 8 | 1. | 2. | 4. | 8. | 1\*5. | 4\* | 8\* | 20\* |
| 5 | 5Q | 1,C | 2,m | 5 | 10 | 1.5 | 2.10 | 5. | 10. | 1\*10. | 5\* | 10\* | 25\* |
| 6 | 3C | 1,m | 3 | 6 | 12 | 1.10 | 3. | 6. | 12. | 2\* | 6\* | 12\* | 30\* |
| 7 | 7Q | 1,3C | 3,m | 7 | 14 | 1.15 | 3.10 | 7. | 14. | 2\*5. | 7\* | 14\* | 35\* |
| 8 | 1 | 2 | 4 | 8 | 16 | 2. | 4. | 8. | 1\*1. | 2\*10. | 8\* | 16\* | 40\* |
| 9 | 1,Q | 2,C | 4,m | 9 | 18 | 2.5 | 4.10 | 9. | 1\*3. | 3\* | 9\* | 18\* | 45\* |
| 10 | 1,C | 2,m | 5 | 10 | 1. | 2.10 | 5. | 10. | 1\*5. | 3\*5. | 10\* | 20\* | 50\* |
| 11 | 1,3Q | 2,3C | 5,m | 11 | 1.2 | 2.15 | 5.0 | 11. | 1\*7. | 3\*10. | 11\* | 22\* | 55\* |
| 12 | 1,m | 3 | 6 | 12 | 1.4 | 3. | 6. | 12. | 1\*9. | 4\* | 12\* | 24\* | C**t** |
| 13 | 1,5Q | 3,C | 6,m | 13 | 1.6 | 3.5 | 6.10 | 13. | 1\*11. | 4\*5. | 13\* | 26\* | 65\* |
| 14 | 1,3C | 3,m | 7 | 14 | 1.8 | 3.10 | 7.0 | 14. | 1\*13. | 4\*10. | 14\* | 28\* | 70\* |
| 15 | 1,7Q | 3,3C | 7,m | 15 | 1.10 | C\* | m\* | 1\* | 2\* | 5\* | 15\* | 30\* | 75\* |
| 20 | 2,m | 5 | 10 | 1. | 2. | 5. | 10. | 1\*5. | 2\*10. | 6\*10. | 20\* | 40\* | 100\* |
| 24 | 3 | 6 | 12 | 1.4 | 2.8 | 6. | 12. | 1\*9. | 3\*3. | 8\* | 24\* | 48\* | m**t** |
| 25 | 3,Q | 6,C | 12,m | 1.5 | 2.10 | 6.5 | 12.10 | 1\*10. | 3\*5. | 8\*5. | 25\* | 50\* | 125\* |
| 30 | 3,3C | 7,m | 15 | 1.10 | 3. | m\* | 1\* | 2\* | 4\* | 10\* | 30\* | C**t** | 150\* |
| 40 | 5 | 10 | 1. | 2. | 4. | 10. | 1\*5. | 2\*10. | 5\*5. | 13\*5. | 40\* | 80\* | 200\* |
| 45 | 5,5Q | 11,C | 1.2,m | 2.5 | 4.10 | 3C\* | 1,m\* | 3\* | 6\* | 15\* | 45\* | 90\* | 225\* |
| 48 | 6 | 12 | 1.4 | 2.8 | 4.16 | 12. | 1\*9. | 3\*3. | 6\*6. | 16\* | 48\* | 96\* | 1**t** |
| 50 | 6,C | 12,m | 1.5 | 1.10 | 5. | 12.10 | 1\*10. | 3\*5. | 6\*10. | 16\*10. | 50\* | 100\* | 250\* |
| 60 | 7,m | 15 | 1.10 | 3. | 6. | 1\* | 2\* | 4\* | 8\* | 20\* | C**t** | m**t** | 1,C**t** |
| 75 | 9,3Q | 18,3C | 1.17,m | 3.15 | m\* | 1,C\* | 2,m\* | 5\* | 10\* | 25\* | 75\* | 150\* | 375\* |
| 90 | 11,C | 1.2,m | 2.5 | 4.10 | 9. | 1,m\* | 3\* | 6\* | 12\* | 30\* | 90\* | 3C**t** | 450\* |
| 100 | 12,m | 1.5 | 2.10 | 5. | 10. | 1\*10. | 3\*5. | 6\*10. | 13\*5. | 33\*5. | 100\* | 200\* | 500\* |

**Imperial coinage multiplication**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1/8 | ¼ | ½ | 1 | 2 | 5 | 10 | 1/- | 2/- | 5/- | 1s | 2s | 5s |
| 2 | 1/4 | 1/2 | 1 | 2 | 4 | 10 | 1/- | 2/- | 4/- | 10/- | 2s | 4s | 10s |
| 3 | 3/8 | 3/4 | 1 1/2 | 3 | 6 | 15 | 1/10 | 3/- | 6/- | 1s | 3s | 6s | 15s |
| 4 | 1/2 | 1 | 2 | 4 | 8 | 1/- | 2/- | 4/- | 8/- | 1s 5/- | 4s | 8s | 20s |
| 5 | 5/8 | 1 1/4 | 2 1/2 | 5 | 10 | 1/5 | 2/10 | 5/- | 10/- | 1s 10/- | 5s | 10s | 25s |
| 6 | 3/4 | 1 1/2 | 3 | 6 | 12 | 1/10 | 3/- | 6/- | 12/- | 2s | 6s | 12s | 30s |
| 7 | 7/8 | 1 3/4 | 3 1/2 | 7 | 14 | 1/15 | 3/10 | 7/- | 14/- | 2s 5/- | 7s | 14s | 35s |
| 8 | 1 | 2 | 4 | 8 | 16 | 2/- | 4/- | 8/- | 1s 1/- | 2s 10/- | 8s | 16s | 40s |
| 9 | 1 1/8 | 2 1/4 | 4 1/2 | 9 | 18 | 2/5 | 4/10 | 9/- | 1s 3/- | 3s | 9s | 18s | 45s |
| 10 | 1 1/4 | 2 1/2 | 5 | 10 | 1/- | 2/10 | 5/- | 10/- | 1s 5/- | 3s 5/- | 10s | 20s | 50s |
| 11 | 1 3/8 | 2 3/4 | 5 1/2 | 11 | 1/2 | 2/15 | 5/10 | 11/- | 1s 7/- | 3s 10/- | 11s | 22s | 55s |
| 12 | 1 1/2 | 3 | 6 | 12 | 1/4 | 3/- | 6/- | 12/- | 1s 9/- | 4s | 12s | 24s | 1/4 ₸ |
| 13 | 1 5/8 | 3 1/4 | 6 1/2 | 13 | 1/6 | 3/5 | 6/10 | 13/- | 1s 11/- | 4 s 5/- | 13s | 26s | 65s |
| 14 | 1 3/4 | 3 1/2 | 7 | 14 | 1/8 | 3/10 | 7/- | 14/- | 1s 13/- | 4s 10/- | 14s | 28s | 70s |
| 15 | 1 7/8 | 3 3/4 | 7 1/2 | 15 | 1/10 | 1/4s | 1/2s | 1s | 2s | 5s | 15s | 30s | 75s |
| 20 | 2 1/2 | 5 | 10 | 1/- | 2/- | 5/- | 10/- | 1s 5/- | 2s 10/- | 6s 10/- | 20s | 40s | 100s |
| 24 | 3 | 6 | 12 | 1/4 | 2/8 | 6/- | 12/- | 1s 9/- | 3s 3/- | 8s | 24s | 48s | 1/2 ₸ |
| 25 | 3 1/8 | 6 1/4 | 12 1/2 | 1/5 | 2/10 | 6/5 | 12/10 | 1s 10/- | 3s 5/- | 8s 5/- | 25s | 50s | 125s |
| 30 | 3 3/4 | 7 1/2 | 15 | 1/10 | 3/- | 1/2s | 1s | 2s | 4s | 10s | 30s | 1/4 ₸ | 150s |
| 40 | 5 | 10 | 1/- | 2/- | 4/- | 10/- | 1s 5/- | 2s 10/- | 5s 5/- | 13s 5/- | 40s | 80s | 200s |
| 45 | 5 5/8 | 11 1/4 | 1/2½ | 2/5 | 4/10 | 3/4s | 1½s | 3s | 6s | 15s | 45s | 90s | 225s |
| 48 | 6 | 12 | 1/4 | 2/8 | 4/16 | 12/- | 1s 9/- | 3s 3/- | 6s 6/- | 16s | 48s | 96s | 1 ₸ |
| 50 | 6 1/4 | 12 1/2 | 1/5 | 2/10 | 5/- | 12/10 | 1s 10/- | 3s 5/- | 6s 10/- | 16s 10/- | 50s | 100s | 250s |
| 60 | 7 1/2 | 15 | 1/10 | 3/- | 6/- | 1s | 2s | 4s | 8s | 20s | 1/4 ₸ | 1/2 ₸ | 11/4 ₸ |
| 75 | 9 3/8 | 18 3/4 | 1/17½ | 3/15 | 1/2s | 1 1/4s | 2 1/2s | 5s | 10s | 25s | 75s | 150s | 375s |
| 90 | 11 1/4 | 1/2½ | 2/5 | 4/10 | 9/- | 1 1/2s | 3s | 6s | 12s | 30s | 90s | 3/4 ₸ | 450s |
| 100 | 12 1/2 | 1/5 | 2/10 | 5/- | 10/- | 1s 10/- | 3s 5/- | 6s 10/- | 13s 5/- | 33s 5/- | 100s | 200s | 500s |

**£ds coinage multiplication**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ¼ | ½ | 1 | 2 | 3 | 4 | 6 | 7 | 1/- | 2/- | 5/- | 10/- | £1 | £2 | £5 |
| 2 | 1/2 | 1 | 2 | 4 | 6 | 8 | 1/- | 1/2 | 2/- | 4/- | 10/- | £1 | £2 | £4 | £10 |
| 3 | 3/4 | 1 1/2 | 3 | 6 | 9 | 1/- | 1/6 | 1/9 | 3/- | 6/- | 15/- | £1 10/- | £3 | £6 | £15 |
| 4 | 1 | 2 | 4 | 8 | 1/- | 1/4 | 2/- | 2/4 | 4/- | 8/- | £1 | £2 | £4 | £8 | £20 |
| 5 | 1 1/4 | 21/2 | 5 | 10 | 1/3 | 1/8 | 2/6 | 2/11 | 5/- | 10/- | £1 5/- | £2 10/- | £5 | £10 | £25 |
| 6 | 1 1/2 | 3 | 6 | 1/- | 1/6 | 2/- | 3/- | 3/6 | 6/- | 12/- | £1 10/- | £3 | £6 | £12 | £30 |
| 7 | 1 3/4 | 31/2 | 7 | 1/2 | 1/9 | 2/4 | 3/6 | 4/1 | 7/-  Third Gu. | 14/- | £1 15/- | £3 10/- | £7 | £14 | £35 |
| 8 | 2 | 4 | 8 | 1/4 | 2/- | 2/8 | 4/- | 4/8 | 8/- | 16/- | £2 | £4 | £8 | £16 | £40 |
| 9 | 2 1/4 | 41/2 | 9 | 1/6 | 2/3 | 3/- | 4/6 | 5/3 | 9/- | 18/- | £2 5/- | £4 10/- | £9 | £18 | £45 |
| 10 | 21/2 | 5 | 10 | 1/8 | 2/6 | 3/4 | 5/- | 5/10 | 10/- | £1 | £2 10/- | £5 | £10 | £20 | £50 |
| 11 | 2 3/4 | 51/2 | 11 | 1/10 | 2/9 | 3/8 | 5/6 | 6/5 | 11/- | £1 2/- | £2 15/- | £5 10/- | £11 | £22 | £55 |
| 12 | 3 | 6 | 1/- | 2/- | 3/- | 4/- | 6/- | 7/-  Third Gui. | 12/- | £1 4/- | £3 | £6 | £12 | £24 | £60 |
| 13 | 3 1/4 | 61/2 | 1/1 | 2/2 | 3/3 | 4/4 | 6/6 | 7/7 | 13/- | £1 6/- | £3 5/- | £6 10/- | £13 | £26 | £65 |
| 14 | 31/2 | 7 | 1/2 | 2/4 | 3/6 | 4/8 | 7/-  Third Gui. | 8/2 | 14/- | £1 8/- | £3 10/- | £7 | £14 | £28 | £70 |
| 15 | 3 3/4 | 71/2 | 1/3 | 2/6 | 3/9 | 5/- | 7/6 | 8/9 | 15/- | £1 10/- | £3 15/- | £7 10/- | £15 | £30 | £75 |
| 16 | 4 | 8 | 1/4 | 2/8 | 4/- | 5/4 | 8/- | 9/4 | 16/- | £1 12/- | £4 | £8 | £16 | £32 | £80 |
| 18 | 41/2 | 9 | 1/6 | 3/- | 4/6 | 6/- | 9/- | 10/6  Half Gui. | 18/- | £1 16/- | £4 10/- | £9 | £18 | £36 | £90 |
| 20 | 5 | 10 | 1/8 | 3/4 | 5/- | 6/8 | 10/- | 11/8 | £1 | £2 | £5 | £10 | £20 | £40 | £100 |
| 21 | 5 1/4 | 101/2 | 1/9 | 3/6 | 5/3 | 7/-  Third Gui. | 10/6  Half Gui. | 12/3 | £1 1/- Guinea | £2 2/- 2 Guinea | £5 5/-5 Guinea | £10 10/- | £21 | £42 | £105 |
| 24 | 6 | 1/- | 2/- | 4/- | 6/- | 8/- | 12/- | 14/- | £1 4/- | £2 8/- | £5 10/- | £12 | £24 | £48 | £120 |
| 25 | 6 1/4 | 1/½ | 2/1 | 4/2 | 6/3 | 8/4 | 12/6 | 14/7 | £1 5/- | £2 10/- | £5 15/- | £12 10/- | £25 | £50 | £125 |
| 30 | 71/2 | 1/3 | 2/6 | 5/- | 7/8 | 10/- | 15/- | 17/6 | £1 10/- | £3 | £7 10/- | £15 | £30 | £60 | £150 |
| 36 | 9 | 1/6 | 3/- | 6/- | 9/- | 12/- | 18/- | £1 1/- Guinea | £1 16/- | £3 12/- | £9 | £18 | £36 | £72 | £180 |
| 40 | 10 | 1/8 | 3/4 | 6/8 | 10/- | 13/4 | £1 | £1 3/4 | £2 | £4 | £10 | £20 | £40 | £80 | £200 |
| 45 | 11 1/4 | 1/10½ | 3/9 | 7/6 | 11/3 | 15/- | £1 2/6 | £1 6/3 | £2 5/- | £4 10/- | £11 5/- | £22 10/- | £45 | £90 | £225 |
| 50 | 1/½ | 2/1 | 4/2 | 8/4 | 12/6 | 16/8 | £1 5/- | £1 9/2 | £2 10/- | £5 | £12 10/- | £25 | £50 | £100 | £250 |
| 60 | 1/3 | 2/6 | 5/- | 10/- | 15/- | £1 | £1 10/- | £1 15/- | £3 | £6 | £15 | £30 | £60 | £120 | £300 |
| 75 | 1/6¾ | 3/1½ | 6/3 | 12/6 | 18/9 | £1 5/- | £1 17/6 | £2 3/9 | £3 15/- | £7 10/- | £18 15/- | £3710/- | £75 | £150 | £350 |
| 100 | 2/1 | 4/2 | 8/4 | 16/8 | £1 5/- | £1 13/4 | £2 10/- | £218/4 | £5 | £10 | £25 | £50 | £100 | £200 | £500 |

**Mayan (base-20) multiplication**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 𝋡 | 𝋢 | 𝋣 | 𝋤 | 𝋥 | 𝋦 | 𝋧 | 𝋨 | 𝋩 | 𝋪 | 𝋫 | 𝋬 | 𝋭 | 𝋮 | 𝋯 | 𝋰 | 𝋱 | 𝋲 | 𝋳 | 𝋡𝋠 |
| 𝋢 | 𝋤 | 𝋦 | 𝋨 | 𝋪 | 𝋬 | 𝋮 | 𝋰 | 𝋲 | 𝋡𝋠 | 𝋡𝋢 | 𝋡𝋤 | 𝋡𝋦 | 𝋡𝋨 | 𝋡𝋪 | 𝋡 𝋬 | 𝋡𝋮 | 𝋡𝋰 | 𝋡𝋲 | 𝋢𝋠 |
| 𝋣 | 𝋦 | 𝋩 | 𝋬 | 𝋯 | 𝋲 | 𝋡𝋡 | 𝋡 𝋤 | 𝋡 𝋧 | 𝋡 𝋪 | 𝋡 𝋭 | 𝋡 𝋰 | 𝋡 𝋳 | 𝋢𝋢 | 𝋢 𝋥 | 𝋢 𝋨 | 𝋢 𝋫 | 𝋢 𝋮 | 𝋢 𝋱 | 𝋣 𝋠 |
| 𝋤 | 𝋨 | 𝋬 | 𝋰 | 𝋡𝋠 | 𝋡𝋤 | 𝋡𝋨 | 𝋡 𝋬 | 𝋡𝋰 | 𝋢𝋠 | 𝋢𝋤 | 𝋢𝋨 | 𝋢𝋬 | 𝋢𝋰 | 𝋣 𝋠 | 𝋣 𝋤 | 𝋣 𝋨 | 𝋣 𝋬 | 𝋣 𝋰 | 𝋤 𝋠 |
| 𝋥 | 𝋪 | 𝋯 | 𝋡𝋠 | 𝋡𝋥 | 𝋡𝋪 | 𝋡𝋯 | 𝋢 𝋠 | 𝋢 𝋥 | 𝋢 𝋪 | 𝋢 𝋯 | 𝋣 𝋠 | 𝋣 𝋥 | 𝋣 𝋪 | 𝋣 𝋯 | 𝋤 𝋠 | 𝋤 𝋥 | 𝋤 𝋪 | 𝋤 𝋯 | 𝋥 𝋠 |
| 𝋦 | 𝋬 | 𝋲 | 𝋡 𝋤 | 𝋡 𝋪 | 𝋡 𝋰 | 𝋢𝋢 | 𝋢 𝋨 | 𝋢 𝋮 | 𝋣 𝋠 | 𝋣 𝋦 | 𝋣 𝋬 | 𝋣 𝋲 | 𝋤 𝋤 | 𝋤 𝋪 | 𝋤 𝋰 | 𝋥 𝋢 | 𝋥 𝋨 | 𝋥 𝋮 | 𝋦 𝋠 |
| 𝋧 | 𝋮 | 𝋡 𝋡 | 𝋡 𝋨 | 𝋡 𝋯 | 𝋢𝋢 | 𝋢 𝋩 | 𝋢 𝋰 | 𝋣 𝋣 | 𝋣 𝋪 | 𝋣 𝋱 | 𝋤 𝋤 | 𝋤 𝋫 | 𝋤 𝋲 | 𝋥 𝋥 | 𝋥 𝋬 | 𝋥 𝋳 | 𝋦 𝋦 | 𝋦 𝋭 | 𝋧𝋠 |
| 𝋨 | 𝋰 | 𝋡𝋤 | 𝋡 𝋬 | 𝋢𝋠 | 𝋢𝋨 | 𝋢𝋰 | 𝋣 𝋤 | 𝋣 𝋬 | 𝋤 𝋠 | 𝋤 𝋨 | 𝋤 𝋰 | 𝋥 𝋤 | 𝋥 𝋬 | 𝋦 𝋠 | 𝋦 𝋨 | 𝋦 𝋰 | 𝋧 𝋤 | 𝋧 𝋬 | 𝋨 𝋠 |
| 𝋩 | 𝋲 | 𝋡 𝋧 | 𝋡 𝋰 | 𝋢 𝋥 | 𝋢 𝋮 | 𝋣 𝋣 | 𝋣 𝋬 | 𝋤 𝋡 | 𝋤 𝋪 | 𝋤 𝋳 | 𝋥 𝋨 | 𝋥 𝋱 | 𝋦 𝋦 | 𝋦 𝋯 | 𝋧 𝋢 | 𝋧 𝋭 | 𝋨 𝋢 | 𝋨 𝋫 | 𝋩 𝋠 |
| 𝋪 | 𝋡𝋠 | 𝋡𝋪 | 𝋢 𝋠 | 𝋢 𝋪 | 𝋣 𝋠 | 𝋣 𝋪 | 𝋤 𝋠 | 𝋤 𝋪 | 𝋥 𝋠 | 𝋥 𝋪 | 𝋦 𝋠 | 𝋦 𝋪 | 𝋧 𝋠 | 𝋧 𝋪 | 𝋨 𝋠 | 𝋨 𝋪 | 𝋩 𝋠 | 𝋩 𝋪 | 𝋪 𝋠 |
| 𝋫 | 𝋡𝋢 | 𝋡 𝋭 | 𝋢𝋤 | 𝋢 𝋯 | 𝋣 𝋦 | 𝋣 𝋱 | 𝋤 𝋨 | 𝋤 𝋳 | 𝋥 𝋪 | 𝋦𝋡 | 𝋦 𝋬 | 𝋧 𝋣 | 𝋧 𝋮 | 𝋨 𝋥 | 𝋨 𝋰 | 𝋩 𝋧 | 𝋩 𝋲 | 𝋪 𝋩 | 𝋫 𝋠 |
| 𝋬 | 𝋡𝋤 | 𝋡 𝋰 | 𝋢𝋨 | 𝋣 𝋠 | 𝋣 𝋬 | 𝋤 𝋤 | 𝋤 𝋰 | 𝋥 𝋨 | 𝋦 𝋠 | 𝋦 𝋬 | 𝋧 𝋤 | 𝋧 𝋰 | 𝋨 𝋨 | 𝋩 𝋠 | 𝋩 𝋬 | 𝋪 𝋤 | 𝋪 𝋰 | 𝋫 𝋨 | 𝋬𝋠 |
| 𝋭 | 𝋡𝋦 | 𝋡 𝋳 | 𝋢𝋬 | 𝋣 𝋥 | 𝋣 𝋲 | 𝋤 𝋫 | 𝋥 𝋤 | 𝋥 𝋱 | 𝋦 𝋪 | 𝋧 𝋣 | 𝋧 𝋰 | 𝋨 𝋩 | 𝋩 𝋢 | 𝋩 𝋯 | 𝋪 𝋨 | 𝋫 𝋡 | 𝋫 𝋮 | 𝋬 𝋧 | 𝋭𝋠 |
| 𝋮 | 𝋡𝋨 | 𝋢𝋢 | 𝋢𝋰 | 𝋣 𝋪 | 𝋤 𝋤 | 𝋤 𝋲 | 𝋥 𝋬 | 𝋦 𝋦 | 𝋧 𝋠 | 𝋧 𝋮 | 𝋨 𝋨 | 𝋩 𝋢 | 𝋩 𝋰 | 𝋪 𝋪 | 𝋫 𝋤 | 𝋫 𝋲 | 𝋬 𝋬 | 𝋭 𝋦 | 𝋮𝋠 |
| 𝋯 | 𝋡𝋪 | 𝋢 𝋥 | 𝋣 𝋠 | 𝋣 𝋯 | 𝋤 𝋪 | 𝋥 𝋥 | 𝋦 𝋠 | 𝋦 𝋯 | 𝋧 𝋪 | 𝋨 𝋥 | 𝋩 𝋠 | 𝋩 𝋯 | 𝋪 𝋪 | 𝋫 𝋥 | 𝋬 𝋠 | 𝋬 𝋯 | 𝋭 𝋪 | 𝋮 𝋥 | 𝋯𝋠 |
| 𝋰 | 𝋡 𝋬 | 𝋢 𝋨 | 𝋣 𝋤 | 𝋤 𝋠 | 𝋤 𝋰 | 𝋥 𝋬 | 𝋦 𝋨 | 𝋧 𝋢 | 𝋨 𝋠 | 𝋨 𝋰 | 𝋩 𝋬 | 𝋪 𝋨 | 𝋫 𝋤 | 𝋬 𝋠 | 𝋬 𝋰 | 𝋭 𝋬 | 𝋮 𝋨 | 𝋯 𝋤 | 𝋰𝋠 |
| 𝋱 | 𝋡𝋮 | 𝋢 𝋫 | 𝋣 𝋨 | 𝋤 𝋥 | 𝋥 𝋢 | 𝋥 𝋳 | 𝋦 𝋰 | 𝋧 𝋭 | 𝋨 𝋪 | 𝋩 𝋧 | 𝋪 𝋤 | 𝋫 𝋡 | 𝋫 𝋲 | 𝋬 𝋯 | 𝋭 𝋬 | 𝋮 𝋩 | 𝋯 𝋦 | 𝋰 𝋣 | 𝋱𝋠 |
| 𝋲 | 𝋡𝋰 | 𝋢 𝋮 | 𝋣 𝋬 | 𝋤 𝋪 | 𝋥 𝋨 | 𝋦 𝋦 | 𝋧 𝋤 | 𝋨 𝋢 | 𝋩 𝋠 | 𝋩 𝋲 | 𝋪 𝋰 | 𝋫 𝋮 | 𝋬 𝋬 | 𝋭 𝋪 | 𝋮 𝋨 | 𝋯 𝋦 | 𝋰 𝋤 | 𝋱 𝋢 | 𝋲𝋠 |
| 𝋳 | 𝋡𝋲 | 𝋢 𝋱 | 𝋣 𝋰 | 𝋤 𝋯 | 𝋥 𝋮 | 𝋦 𝋭 | 𝋧 𝋬 | 𝋨 𝋫 | 𝋩 𝋪 | 𝋪 𝋩 | 𝋫 𝋨 | 𝋬 𝋧 | 𝋭 𝋦 | 𝋮 𝋥 | 𝋯 𝋤 | 𝋰 𝋣 | 𝋱 𝋢 | 𝋲𝋡 | 𝋳𝋠 |
| 𝋡𝋠 | 𝋢𝋠 | 𝋣 𝋠 | 𝋤 𝋠 | 𝋥 𝋠 | 𝋦 𝋠 | 𝋧𝋠 | 𝋨 𝋠 | 𝋩 𝋠 | 𝋪 𝋠 | 𝋫 𝋠 | 𝋬𝋠 | 𝋭𝋠 | 𝋮𝋠 | 𝋯𝋠 | 𝋰𝋠 | 𝋱𝋠 | 𝋲𝋠 | 𝋳𝋠 | 𝋡𝋠𝋠 |

**Squares and cubes**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 𝋢 | 𝋣 | 𝋤 | 𝋥 | 𝋦 | 𝋧 | 𝋨 | 𝋩 | 𝋪 | 𝋫 | 𝋬 | 𝋭 | 𝋮 | 𝋯 | 𝋰 | 𝋱 | 𝋲 | 𝋳 | 𝋡𝋠 |
| ◼ | 𝋤 | 𝋩 | 𝋰 | 𝋡𝋥 | 𝋡 𝋰 | 𝋢 𝋩 | 𝋣 𝋤 | 𝋤 𝋡 | 𝋥 𝋠 | 𝋦𝋡 | 𝋧 𝋤 | 𝋨 𝋩 | 𝋩 𝋰 | 𝋫 𝋥 | 𝋬 𝋰 | 𝋮 𝋩 | 𝋰 𝋤 | 𝋲𝋡 | 𝋡𝋠𝋠 |
| ❒ | 𝋨 | 𝋡 𝋧 | 𝋣 𝋤 | 𝋦 𝋥 | 𝋪 𝋰 | 𝋱 𝋣 | 𝋡 𝋥 𝋬 | 𝋡 𝋰 𝋩 | 𝋢 𝋪𝋠 | 𝋣 𝋦 𝋫 | 𝋤 𝋦 𝋨 | 𝋥 𝋩 𝋱 | 𝋦 𝋱 𝋤 | 𝋨 𝋨 𝋯 | 𝋪 𝋤 𝋦 | 𝋬 𝋥 𝋭 | 𝋮 𝋫 𝋧 | 𝋱 𝋢 𝋳 | 𝋡𝋠𝋠𝋠 |

**Légi Férri alphabetic counting**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| s | t | p | k | C | z | d | b | g | J | c | T | f | H | h | j | D | v | G | K |
| S | T | P | K | C | Z | D | B | G | DJ | SH | TH | F | CH | H | J | DH | V | GH | KH |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| m | n | r | l | w | a | e | o | i | u | A | E | O | I | Y | ] | } | U | y | W |
| M | N | R | L | W | A | E | O | I | U | AI | EI | OI | AE | Y | AU | EU | OU | YE | UI |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | extended 🠝 |
| M | N | R | L | ` | < | > | S | q | [ | x | Z | Q | { | X | & | \* | B | V |
| MM | NN | RR | LL | NY | RY | LY | SS | TS | PS | X | ZZ | ST | SP | SK | (no phonetic value) | | | |

**Légi Férri gematric counting**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| s | 1 |  | J | 10 |  | G | 100 |  | o | 1000 |  | } | 10,000 |
| t | 2 |  | c | 20 |  | K | 200 |  | i | 2000 |  | U | 20,000 |
| p | 3 |  | T | 30 |  | m | 300 |  | u | 3000 |  | y | 30,000 |
| k | 4 |  | f | 40 |  | n | 400 |  | A | 4000 |  | W | 40,000 |
| C | 5 |  | H | 50 |  | r | 500 |  | E | 5000 |  | 🠝 optional | | |
| z | 6 |  | h | 60 |  | l | 600 |  | O | 6000 |  |  |  | |
| d | 7 |  | j | 70 |  | w | 700 |  | I | 7000 |  | u. | myriads | |
| b | 8 |  | D | 80 |  | a | 800 |  | Y | 8000 |  | u.. | 100 mill’s | |
| g | 9 |  | v | 90 |  | e | 900 |  | ] | 9000 |  | u! | trillions | |

**Beneghárian calendar numerals & month abbreviations**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | B | V | 2; | 3; | 4; | 5: | 6: | 7: | 8; | 9; |
| k1 | k2 | bo | pl | kw | nA | Cf | sU | kl | sl | gA | sn; | sa: | sr: | mr | sk | tl | kc | al |

**Calendars**

Beneghárian**:** 19 months of 19 days, following the rotation of the blue moon; divided into 3 weeks of 6, 6 and 7 days. Every 5 years – except if divisible by 950 – a leap month is added, averaging 364.78 days per year. The year starts around winter solstice.

**Cerneghárian:** 12 months of 31, 30 and 30 days (91 per season) with an extra day added on years *not* divisible by 5, but not on the 1st of every 50 years, averaging 364.78 days per year. Weeks follow quarter-rotations of the orange moon, and have 7 days generally, but 6 days every 4th week, and also on the 26th, 50th and 78th of every 80 weeks, averaging 26.85 days per lunation. The year starts on the spring equinox.

**Náyte:** 6 “months” of 60 days, each divided into 10 weeks of 6 days. At the end of each year, shortly after the autumnal equinox, there is a Harvest festival week of 4-5 days (with the same rule as for the Cerneghárian calendar above) not belonging to any month.

**Ghérderan:** months follow the rotation of the orange moon, having 27 days generally, but 26 days every 7th, 13th and 20th month in a 20-month cycle (essentially the same rule as for Cerneghárian weeks), averaging 26.85 days per month. In a 12-year cycle, the 3rd, 5th, 7th, 10th and 12th (except every 33 cycles) years have 13 months, while the rest have 14 – averaging 364.7803 days per year. The year starts around the spring equinox.

**Córderan:** months follow the rotation of the orange moon, while “weeks” follow the rotation of the blue moon. Each day is designated by specifying the day number in the blue moon week, together with the day letter in the orange moon month. This date notation is *unique*throughout a 19-month cycle – in which the 7th, 12th and 19th months have 26 days each, and the rest have 27 days.

Example of date designations:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| s1 | t2 | p3 | k4 | C5 | z6 | d7 | b8 | g9 | JB | cV | T2; | F3; |
| H4; | h5: | j6: | D7: | v8; | G9; | K1 | m2 | n3 | r4 | l5 | w6 | a7 |
| e8 | s9 | tB | pV | k2; | C3; | z4; | d5: | b6: | g7: | J8; | c9; | T1 |
| f2 | H3 | h4 | j5 | D6 | v7 | G8 | K9 | mB | nV | r2; | l3; | w4; |
| a5: | e6: | s7: | t8; | p9; | k1 | C2 | z3 | d4 | b5 | g6 | J7 | c8 |

20 such 19-month cycles make a great cycle of 10,203 days (the last month in the 7th, 14th and 20th cycles has 27 days instead of 26), after which the rotations of the two moons synchronize. This roughly corresponds to 28 years of 364.78 days, thus the great cycle is additionally divided to 28 years, out of which 12 years (year 2, 4, 6, 9, 11, 13, 16, 18, 20, 23, 25 and 27) have 13 months and the other 16 years have 14 months. Each 5th cycle of 28 years however, only 10 years (year 2, 4, 7, 10, 13, 16, 18, 21, 24 and 27) have 13 months while the others have 14 – averaging 364.7764 days per year.

Every 140 years (i.e. roughly 5 great cycles), the 1st month of each year moves two months forward in relation to  
19-month cycles. Cycles and years thus synchronize only every 26,600 years, which are 951 great cycles.

Example of a great cycle, with the blue moon day at the beginning of each month:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| mo.\cyc | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| I | 1 | 17 | 14 | 11 | 8 | 5 | 2 | 19 | 16 | 13 | 10 | 7 | 4 | 2 | 18 | 15 | 12 | 9 | 6 | 3 |
| II | 9 | 6 | 3 | 19 | 16 | 13 | 10 | 8 | 5 | 2 | 18 | 15 | 12 | 10 | 7 | 4 | 1 | 17 | 14 | 11 |
| III | 17 | 14 | 11 | 8 | 5 | 2 | 18 | 16 | 13 | 10 | 7 | 4 | 1 | 18 | 15 | 12 | 9 | 6 | 3 | 19 |
| IV | 6 | 3 | 19 | 16 | 13 | 10 | 7 | 5 | 2 | 18 | 15 | 12 | 9 | 7 | 4 | 1 | 17 | 14 | 11 | 8 |
| V | 14 | 11 | 8 | 5 | 2 | 18 | 15 | 13 | 10 | 7 | 4 | 1 | 17 | 15 | 12 | 9 | 6 | 3 | 19 | 16 |
| VI | 3 | 19 | 16 | 13 | 10 | 7 | 4 | 2 | 18 | 15 | 12 | 9 | 6 | 4 | 1 | 17 | 14 | 11 | 8 | 5 |
| VII | 11 | 8 | 5 | 2 | 18 | 15 | 12 | 10 | 7 | 4 | 1 | 17 | 14 | 12 | 9 | 6 | 3 | 19 | 16 | 13 |
| VIII | 18 | 15 | 12 | 9 | 6 | 3 | 19 | 17 | 14 | 11 | 8 | 5 | 2 | 19 | 16 | 13 | 10 | 7 | 4 | 1 |
| IX | 7 | 4 | 1 | 17 | 14 | 11 | 8 | 6 | 3 | 19 | 16 | 13 | 10 | 8 | 5 | 2 | 18 | 15 | 12 | 9 |
| X | 15 | 12 | 9 | 6 | 3 | 19 | 16 | 14 | 11 | 8 | 5 | 2 | 18 | 16 | 13 | 10 | 7 | 4 | 1 | 17 |
| XI | 4 | 1 | 17 | 14 | 11 | 8 | 5 | 3 | 19 | 16 | 13 | 10 | 7 | 5 | 2 | 18 | 15 | 12 | 9 | 6 |
| XII | 12 | 9 | 6 | 3 | 19 | 16 | 13 | 11 | 8 | 5 | 2 | 18 | 15 | 13 | 10 | 7 | 4 | 1 | 17 | 14 |
| XIII | 19 | 16 | 13 | 10 | 7 | 4 | 1 | 18 | 15 | 12 | 9 | 6 | 3 | 1 | 17 | 14 | 11 | 8 | 5 | 2 |
| XIV | 8 | 5 | 2 | 18 | 15 | 12 | 9 | 7 | 4 | 1 | 17 | 14 | 11 | 9 | 6 | 3 | 19 | 16 | 13 | 10 |
| XV | 16 | 13 | 10 | 7 | 4 | 1 | 17 | 15 | 12 | 9 | 6 | 3 | 19 | 17 | 14 | 11 | 8 | 5 | 2 | 18 |
| XVI | 5 | 2 | 18 | 15 | 12 | 9 | 6 | 4 | 1 | 17 | 14 | 11 | 8 | 6 | 3 | 19 | 16 | 13 | 10 | 7 |
| XVII | 13 | 10 | 7 | 4 | 1 | 17 | 14 | 12 | 9 | 6 | 3 | 19 | 16 | 14 | 11 | 8 | 5 | 2 | 18 | 15 |
| XVIII | 2 | 18 | 15 | 12 | 9 | 6 | 3 | 1 | 17 | 14 | 11 | 8 | 5 | 3 | 19 | 16 | 13 | 10 | 7 | 4 |
| XIX | 10 | 7 | 4 | 1 | 17 | 14 | 11 | 9 | 6 | 3 | 19 | 16 | 13 | 11 | 8 | 5 | 2 | 18 | 15 | 12 |

Note that within a year, dates might repeat themselves (in orange, blue or green above). Ambiguity is resolved by adding the prefix *bla(h)-* “double”, designated by s%3; in the calendar, to the dates of the repeated months.

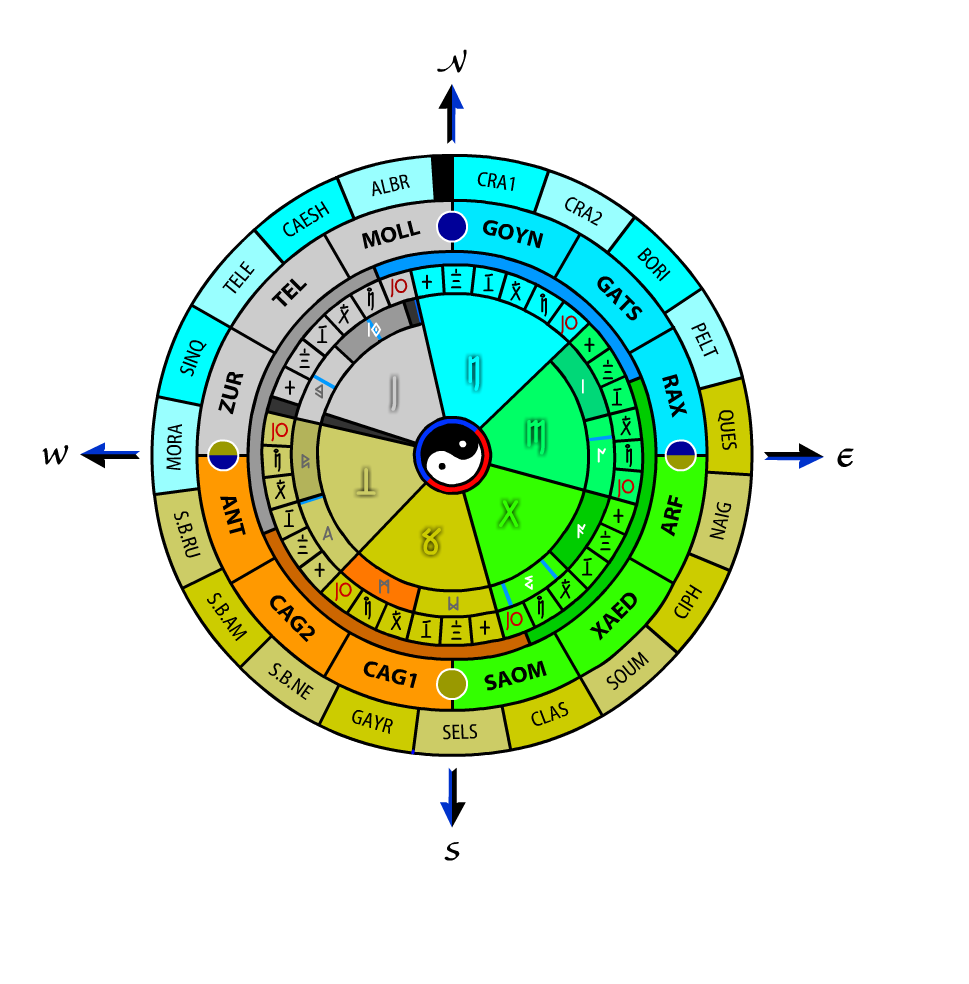
**Ságrian:** coordinates the solar agricultural year with the rotations of the blue moon by having an extra-calendric winter period. The year always starts at the first full moon following the thawing of ice in Héusta port (around mid-February), and contains 10 months of 30 days each, with 5 extra days to complete 16 lunations. Festivities generally occur on full blue moons, which have a fixed date in the calendar. The unnamed winter period may last either 56 or 75 days, with the longer one occurring approximately every 5 years.

At first, the beginning of each year was purely observational (declared by the Grand Master Archsage in Héusta). However, over time a calculation was made to simplify planning, ending up with a rule similar to the Beneghárian leap month rule: a long winter occurs every 5 years, with 6 years between long winters at the turn of even centuries – thus averaging 364.781 days per year.

The structure of the year:

|  |  |  |  |
| --- | --- | --- | --- |
| Month | Length | Blue moon epact\* | Festivities |
| #1: Month of waters | 30 days | 0 | **1st** (full moon): New Year’s day |
| #2: Spring month | 30 days | -8 | **9th** (full moon): Spring festival |
| #3: Month of sowing | 30 days | +3 |  |
| #4: Hay month | 30 days | -5 | **6th** (full moon): Vine festival  **25th** (full moon): Sacred pyres festival |
| #5: Bright month | 30 days | +6 | **30th**: Midsummer night |
| #6: Summer month | 30 days | -2 | **1st**: Midsummer day |
| #7: Harvest month | 30 days | +9 | **30th** (full moon): Harvest moon festival |
| #8: Windy month | 30 days | +1 |  |
| #9: Homecoming month | 30 days | -7 | **18th** (new moon): Rising against darkness – winter lights festival |
| #10: Month of snows | 30 days | +4 | **16th** (full moon): Wolf’s moon |
| Yule days | 5 days | -4 | **5th** (full moon): Solstice moon / Yule |
| #11: Early winter | 28 or 38 days |  | **19th** (full moon) of late winter on long winter years is named “False Hope moon“ |
| #12: Late winter | 28 or 37 days |
| **Total** | **361 or 380 days** |  |  |

\* An epact is the number of days that have passed since the full moon, on the 1st day of each (solar) month



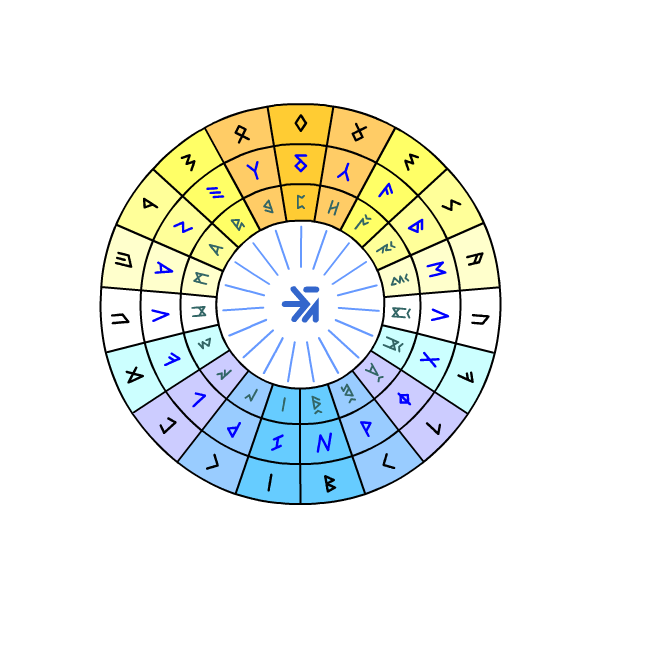
**Néteran occult runes**

The Néteran version of the Légi Férri script has 38 basic letters (without the extended ligatures representing two sounds) which are neatly divided into two phonetic groups: the Sun letters – representing stops and fricatives, named after the letter S, the first sound in *sélsis* (“sun”); and the Moon letters – representing sonorants and vowels, and named the after letter I, the first sound in *iléne* (“moon”). Below in dictionary order:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sun | s | t | p | k | C | z | d | b | g | J | c | T | f | H | h | j | D | v | q |
| S | T | P | K | C | Z | D | B | G | DJ | SH | TH | F | CH | H | J | DH | V | TS |
| Moon | m | n | r | l | w | a | e | o | i | u | A | E | O | I | Y | ] | } | U | y |
| M | N | R | L | W | A | E | O | I | U | AI | EI | OE | EA | Y | AU | EO | OU | YE |

Each group contains exactly 19 letters, which coincides with the number of days in a Beneghárian month – leading occultists to use the alphabet for divinations, usually employing the runic forms of the letters, where each pair of letters (one Sun letter and one Moon letter) corresponds to a day of the month, by vaguely linking the shapes of the letters to phases of the blue moon. Below are the runes in the occult order:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Day | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Sun | h | j | D | v | p | b | t | H | s | d | f | c | T | J | g | C | k | z | q |
| H | J | DH | V | P | B | T | CH | S | D | F | SH | TH | DJ | G | C | K | Z | TS |
| Moon | I | n | i | y | a | A | w | } | Y | O | U | l | ] | m | e | u | r | o | E |
| EA | N | I | YE | A | AI | W | EO | Y | OE | OU | L | AU | M | E | U | R | O | EI |

****

**Units of measurement**

|  |  |  |
| --- | --- | --- |
|  | **Length** |  |
|  |  |
| Digit = 1.8053 cm | | |
| Span = 10 digits = 18.053 cm | | |
| Ell = 2½ spans = 25 digits = 45.133 cm | | |
| Step = 4½ spans = 45 digits = 81.239 cm | | |
| Pace = 2 steps = 9 spans = 1.6248 m | | |
| Fathom = 4 ells = 10 spans = 1.8053 m | | |
| Chain = 25 paces = 40.619 m | | |
| Stade = 5 chains = 125 paces = 203.1 m | | |
| Mile = 8 stades = 1000 paces = 1.6248 km | | |
| League = 4 miles = 6.4991 km = 1/3600 of a meridian | | |

|  |  |  |
| --- | --- | --- |
|  | **Area** |  |
|  |  |
| Cell = square digit = 3.2591 cm2 | | |
| Tile = square span = 100 cells = 325.91 cm2 | | |
| Pallet = 4 square ells = 25 tiles = 0.8148 m2 | | |
| Perch = 30 pallets = 24.443 m2 | | |
| Acre = 200 perches = 6000 pallets = 0.4889 ha | | |
| Field = 9 acres = 1800 perches = 4.4 ha | | |
| Square mile = 60 fields = 540 acres = 2.64 km2 | | |
| Township = 40 square miles = 105.6 km2 | | |

|  |  |  |
| --- | --- | --- |
|  | **Volume** |  |
|  |  |
| Drop = 0.5702 ml | | |
| Teaspoon = 10 drops = 5.7022 ml | | |
| Tablespoon = 3 teaspoons = 30 drops = 17.107 ml | | |
| Ounce = 2 tablespoons = 60 drops = 34.213 ml= 1.1 Troy ounce | | |
| Pint = 12 ounces = 410.56 ml | | |
| Quart = 2 pints = 24 ounces = 821.12 ml | | |
| Gallon = 4 quarts = 8 pints = 3.2844 l | | |
| Bucket = 4 gallons = 32 pints = 13.138 l | | |
| Barrel = 10 buckets = 40 gallons = 131.38 l | | |
| Tun = 8 barrels = 320 gallons = 1051.03 l | | |

|  |  |  |
| --- | --- | --- |
|  | **Mass** |  |
|  |  |
| Pennyweight = 0.3421 g | | |
| Stivu = 1⅔ pwt. = 1/60 oz. = 0.5702 g | | |
| Dram = 10 pwt. = 6 stives = 3.4213 g | | |
| Ounce = 10 drams = 100 pwt. = 34.213 g = 1 ounce of water at 4°C | | |
| Pound = 12 ounces = 410.56 g= 1 pint of water at 4°C | | |
| Talent = 60 pounds = 720 ounces = 24.633 kg | | |
| Ton = 40 talents = 2400 pounds = 985.34 kg = 1 tun of rum, 50% A.B.V. | | |

|  |  |  |
| --- | --- | --- |
|  | **Time** |  |
|  |  |
| Minute = 12 parts [a part equals our world 7.5 seconds] | | |
| Hour = 60 minutes = 720 parts | | |
| Day = 16 hours = 960 minutes = 11 520 parts | | |
| Week = 6 to 8 days [depending on calendar used] | | |
| Month of Altaír (the blue moon) = 19 days | | |
| Month of Félwan (the orange moon) = 26.85 days | | |
| Year ~ 13.586 Félwan lun. ~ 19.199 Altaír lun. = 364.78 days | | |
| Lunar cycle = 20 Félwan lun. = 537 days | | |
| Great cycle = 380 Félwan lun. = 537 Altaír lun. ~ 27.97 years | | |
| Altaír epoch = 18 239 Altaír lun. = 950 years | | |
| Great epoch = 951 great cycles ~ 28 Altaír epochs ~ 26 600 years | | |

**Coinage in Rashpén**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Imperial | | Rhadibári | | Senddagári | | Gér’deran | |
|  | BRONZE | pwt. | BRASS | pwt. | COPPER | pwt. | PEWTER | pwt. |
| 1/10 p |  |  | Kshéddet | 2.8 |  |  |  |  |
| 1/8 p | Half farthing | 3 |  |  | Kárčihl | 4 | 1/4 túgrok | 6½ |
| 1/5 p |  |  | 2 kshédder | 5.6 |  |  |  |  |
| 1/4 p | Farthing | 6 |  |  | Mózčihl | 8 | 1/2 túgrok | 13 |
| 1/2 p | Ha’penny | 12 | Yrántet = 5 ξ | 14 | Čihl | 16 | Túgrok | 26 |
|  |  |  |  |  |  |  | BILLON | **1:26** |
| 1 p | Penny | 24 | 2 yránter = 10 ξ | 28 | Shéčihl = 2 č | 32 |  |  |
| 1½ p |  |  |  |  |  |  | Skótaa = 3 Ͳ | 3 |
| 2 p | Twopence | 48 |  |  | BILLON | **1:16** |  |  |
|  | SILVER | **1:24** | SILVER | **1:28** |  |  |  |  |
| 1 p | Penny | 1 |  |  |  |  |  |  |
| 2½ p |  |  | 1/4 tgána = 25 ξ | 2½ | Tann = 5 č | 5 |  |  |
| 3 p |  |  |  |  |  |  | 2 skóteir = 6 Ͳ | 6 |
| 5 p | Spear | 5 | 1/2 tgána = 50 ξ | 5 |  |  |  |  |
| 6 p |  |  |  |  |  |  | 4 skóteir = 12 Ͳ | 12 |
| 7½ p |  |  |  |  | Yóuktann = 15 č | 15 |  |  |
| 10 p | Half shield | 10 | Tgána = 100 ξ | 10 | SILVER | **1:2.6** | SILVER | **1:2** |
| 12½p |  |  |  |  |  |  | 1/4 kirtx = 25 Ͳ | 12½ |
| 15 p |  |  |  |  | Mózbenk = 30 č | 11.5 |  |  |
| 20 p | Shield | 20 | 2 tgánor | 20 |  |  |  |  |
| 25 p |  |  |  |  |  |  | 1/2 kirtx = 50 Ͳ | 25 |
| 30 p |  |  |  |  | Dbenk = 60 č | 23 |  |  |
| 40 p | Floreal = 2/- | 40 |  |  |  |  |  |  |
| 50 p | Half crown = 2/10 | 50 | 5 tgánor | 50 |  |  | Kirtx = 100 Ͳ | 50 |
| 60 p |  |  |  |  | Shédbenk = 120 č | 46 |  |  |
| 1 ₢ | Crown = 5/- | 1 oz. | Gvéndli = 10 tg. | 1 oz. |  |  |  |  |
|  | GOLD | **1:15** | GOLD | **1:16** | GOLD standard | **1:11½** | GOLD | **1:16** |
| 1¼ ₢ |  |  |  |  |  |  | 1/4 geuld = 2½ Kx | 713/16 |
| 1½ ₢ | Half sovn. = 7/10 | 10 |  |  | Mózrand = 5 db | 10 |  |  |
| 2 ₢ |  |  | 1/2 antéri = 20 tg. | 12½ |  |  |  |  |
| 2½₢ |  |  |  |  |  |  | 1/2 geuld = 5 Kx | 155/8 |
| 3 ₢ | Sovereign = 15/- | 20 |  |  | Rand = 10 db | 20 |  |  |
| 4 ₢ |  |  | Antéri = 40 tg. | 25 |  |  |  |  |
| 5 ₢ |  |  |  |  |  |  | Geuld = 10 Kx | 31¼ |
| 6 ₢ | Laureate = 2 s. | 40 |  |  |  |  |  |  |
| 7½₢ |  |  |  |  | Mózončir = 25 db | 50 |  |  |
| 8 ₢ |  |  | Dbl antéri = 80 tg. | 50 |  |  |  |  |
| 15 ₢ | Imperial = 5 s. | 1 oz. |  |  | Ončír = 50 db | 1 oz. |  |  |