## Base 6 Representation of Number System

| -20 | -10 | 0 | 10 | 20 | 30 | 40 |
|---|---|---|---|---|---|---|
| -15 | -5 | 1 | 11 | 21 | 31 | 41 |
| -14 | -4 | 2 | 12 | 22 | 32 | 42 |
| -13 | -3 | 3 | 13 | 23 | 33 | 43 |
| -12 | -2 | 4 | 14 | 24 | 34 | 44 |
| -11 | -1 | 5 | 15 | 25 | 35 | 45 |

**Addition of 1**

| 1 | 11 | 21 | 31 | 41 |
|---|---|---|---|---|
| 2 | 12 | 22 | 32 | 42 |
| 3 | 13 | 23 | 33 | 43 |
| 4 | 14 | 24 | 34 | 44 |
| 5 | 15 | 25 | 35 | 45 |
| 10 | 20 | 30 | 40 | 50 |

**Subtracting 1**

| -1 | 5 | 15 | 25 | 35 |
|---|---|---|---|---|
| 0 | 10 | 20 | 30 | 40 |
| 1 | 11 | 21 | 31 | 41 |
| 2 | 12 | 22 | 32 | 42 |
| 3 | 13 | 23 | 33 | 43 |
| 4 | 14 | 24 | 34 | 44 |

**Addtion of 6**

| 10 | 20 | 30 | 40 | 50 |
|---|---|---|---|---|
| 11 | 21 | 31 | 41 | 51 |
| 12 | 22 | 32 | 42 | 52 |
| 13 | 23 | 33 | 43 | 53 |
| 14 | 24 | 34 | 44 | 54 |
| 15 | 25 | 35 | 45 | 55 |

**Subtracting 6**

| -10 | 0 | 10 | 20 | 30 |
|---|---|---|---|---|
| -5 | 1 | 11 | 21 | 31 |
| -4 | 2 | 12 | 22 | 32 |
| -3 | 3 | 13 | 23 | 33 |
| -2 | 4 | 14 | 24 | 34 |
| -1 | 5 | 15 | 25 | 35 |

| Multiplication | | 6x6 Grid | 0 | 1 | 2 | 3 |
|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 0 | 1 | 2 | 3 |
| | | 2 | 0 | 2 | 4 | 10 |
| | | 3 | 0 | 3 | 10 | 13 |
| | | 4 | 0 | 4 | 12 | 20 |
| | | 5 | 0 | 5 | 14 | 23 |
| | | | | | | |
| | | | | | | |
| Multiply by Single Digit | | Multiply by 3 | 0 | 3 | 10 | 13 |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 50 | 100 | 110 | 120 | 130 | 140 | 150 |
| 51 | 101 | 111 | 121 | 131 | 141 | 151 |
| 52 | 102 | 112 | 122 | 132 | 142 | 152 |
| 53 | 103 | 113 | 123 | 133 | 143 | 153 |
| 54 | 104 | 114 | 124 | 134 | 144 | 154 |
| 55 | 105 | 115 | 125 | 135 | 145 | 155 |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| 51 | | | | | | |
| 52 | | | | | | |
| 53 | | | | | | |
| 54 | | | | | | |
| 55 | | | | | | |
| 100 | | | | | | |
| | | | | | | |
| | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |
| 51 | | | | | | |
| 52 | | | | | | |
| 53 | | | | | | |
| 54 | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 100 | | | | | | |
| 101 | | | | | | |
| 102 | | | | | | |
| 103 | | | | | | |
| 104 | | | | | | |
| 105 | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 40 | | | | | | |
| 41 | | | | | | |
| 42 | | | | | | |
| 43 | | | | | | |
| 44 | | | | | | |
| 45 | | | | | | |
| | | | | | | |
| | | | | | | |

| 4 | 5 | | | | | |
|---|---|---|---|---|---|---|
| 0 | 0 | | | | | |
| 4 | 5 | | | | | |
| 12 | 14 | | | | | |
| 20 | 23 | | | | | |
| 24 | 32 | | | | | |
| 32 | 41 | | | | | |
| | | | | | | |
| | | | | | | |
| 20 | 23 | | | | | |
| | | | | | | |