

### Inky #1

|      |      |       |      |      |      |      |      |      |
|------|------|-------|------|------|------|------|------|------|
| 1 -  |      | 36 x  | 8 +  | 16 + |      | 12 + | 45 x |      |
| 2 /  | 8 +  |       |      |      |      |      |      | 2 /  |
|      |      |       | 20 + | 1 -  | 7 -  | 1 -  | 1 -  |      |
| 12 x |      |       |      |      |      |      |      | 28 x |
| 10 x | 5 -  |       |      |      | 20 + |      |      |      |
|      | 2 -  | 4 /   |      | 4 -  |      | 12 x | 4 /  |      |
| 3 /  |      | 224 x |      | 2 -  | 1 -  |      |      | 11 + |
|      | 20 + |       |      |      |      | 20 x | 48 x |      |
|      |      |       | 17 + |      |      |      |      |      |

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### Inky #2

|      |      |      |      |      |      |       |      |     |
|------|------|------|------|------|------|-------|------|-----|
| 14 + | 42 x | 63 x |      | 8 +  | 24 + |       |      |     |
|      |      |      |      |      |      | 24 +  | 18 x | 2 / |
|      | 2 /  |      | 35 x |      | 10 + |       |      |     |
| 3 -  |      | 10 + |      | 48 x |      |       | 56 x | 2 - |
| 2 /  | 1 -  |      |      |      | 8 +  |       |      |     |
|      | 2 x  | 3 -  | 2 -  | 4 /  |      | 168 x | 2 -  |     |
| 20 + |      |      |      | 3 /  |      |       | 5 x  | 3 - |
|      | 12 + | 3 -  |      |      | 5 -  | 2 /   |      |     |
|      |      | 96 x |      |      |      |       | 1 -  |     |

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### Inky #3

|      |      |      |      |       |        |       |      |      |
|------|------|------|------|-------|--------|-------|------|------|
| 9 x  | 2 /  | 11 + | 15 x | 336 x |        |       | 18 x |      |
|      |      |      |      | 4 +   |        | 1 -   |      | 2 -  |
| 1 -  | 7 -  | 96 x |      |       | 20 x   | 9 +   |      |      |
|      |      | 2 /  |      | 21 +  |        | 189 x |      | 8 +  |
| 1 -  |      |      |      |       | 3 /    |       |      |      |
| 14 + | 2 /  | 9 +  |      | 3 -   |        | 10 +  |      | 11 + |
|      |      | 9 x  |      |       | 1134 x |       |      |      |
|      | 14 x | 4 -  | 5 -  |       |        | 4 /   | 2 -  | 1 -  |
|      |      |      |      | 10 +  |        |       |      |      |

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### Inky #4

|       |      |      |     |      |     |       |      |      |
|-------|------|------|-----|------|-----|-------|------|------|
| 7 +   |      | 36 x |     | 15 + | 2 - | 63 x  |      | 18 x |
| 1 -   |      |      | 3 - |      |     | 7 +   |      |      |
| 4 -   | 13 + |      |     |      | 2 - |       | 12 x |      |
|       | 22 + | 14 + |     | 2 /  | 9 x | 32 x  |      |      |
|       |      |      |     |      |     |       | 1 -  |      |
| 432 x |      | 4 /  |     | 3 /  | 5 - |       | 9 +  |      |
| 2 /   |      | 11 + | 3 - |      |     | 108 x | 21 x | 8 +  |
|       |      |      |     | 3 -  |     |       |      |      |
| 4 /   |      | 3 /  |     | 2 -  |     |       | 48 x |      |

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Fill in the blank squares so that each row and each column contain all of the digits 1 thru 9.

The heavy lines indicate areas (called cages) that contain groups of numbers that can be combined (in any order) to produce the result shown in the cage, with the indicated math operation. For example, 12x means you can multiply the values together to produce 12.

Numbers in cages may repeat, as long as they are not in the same row or column.

### Inky #5

|      |       |     |       |           |     |      |       |      |
|------|-------|-----|-------|-----------|-----|------|-------|------|
| 17 + |       | 2 / |       | 1512<br>x | 5 - |      | 21 +  |      |
|      | 3 /   | 1 - |       |           |     |      |       | 17 + |
| 3 -  |       | 4 / |       | 36 x      | 9 + | 72 x |       |      |
|      | 56 x  | 4 - |       |           |     |      |       |      |
|      |       | 7 - |       | 1 -       | 2 - |      | 168 x |      |
| 4 /  | 360 x | 6 + |       |           |     | 21 + |       | 27 x |
|      |       | 1 - | 128 x |           | 8 + |      |       |      |
|      |       |     | 13 +  |           |     |      | 448 x |      |
| 17 + |       |     |       |           |     |      |       |      |

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### Inky #6

|      |      |      |           |      |       |     |      |       |
|------|------|------|-----------|------|-------|-----|------|-------|
| 3 -  | 2 /  | 8 +  | 3 /       | 10 + |       | 1 - | 72 x | 3 /   |
|      |      |      |           | 35 x | 2 /   |     |      |       |
| 1 -  | 7 x  | 14 + |           |      |       | 5 - |      | 9 x   |
|      |      | 16 + |           | 2 -  |       |     | 10 + |       |
| 2 /  | 17 + |      | 2240<br>x |      |       |     |      | 3 -   |
|      |      | 4 /  | 72 x      |      |       | 1 - |      |       |
| 22 + |      |      | 14 x      |      | 135 x | 5 - |      | 120 x |
|      | 4 -  | 3 -  |           |      |       | 5 + | 9 +  |       |
|      |      | 3 /  |           | 4 /  |       |     |      |       |

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### Inky #7

|           |      |     |       |      |      |      |     |     |
|-----------|------|-----|-------|------|------|------|-----|-----|
| 21 x      | 10 + |     | 112 x |      | 4 -  |      | 3 / |     |
|           | 64 x | 3 / |       | 54 x | 18 + |      |     | 3 - |
|           |      |     | 54 x  |      | 14 x | 3 -  |     |     |
| 9 x       | 3 /  | 9 + |       | 3 -  |      | 2 -  | 1 - | 7 + |
|           |      |     | 9 +   |      | 3 /  |      |     |     |
| 30 x      |      | 2 - |       | 4 /  |      | 6 x  |     | 5 - |
| 11 +      |      |     | 7 +   |      | 22 + | 3 -  |     |     |
| 4320<br>x |      |     |       |      |      | 15 + |     | 1 - |
|           |      |     | 15 x  |      |      | 5 +  |     |     |

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### Inky #8

|      |      |       |      |      |      |      |      |      |
|------|------|-------|------|------|------|------|------|------|
| 19 + |      |       | 6 -  |      | 12 x |      | 4 -  | 3 /  |
| 1 -  | 17 + |       |      | 5 -  | 1 -  |      |      |      |
|      | 3 /  |       | 30 x |      | 2 /  |      | 11 + |      |
| 14 + |      | 5 -   |      | 4 /  | 15 x | 2 /  | 3 /  | 63 x |
| 24 x | 49 x |       |      |      |      |      |      |      |
|      |      |       | 10 + |      | 9 +  | 4 -  | 1 -  |      |
| 11 + | 6 x  |       | 14 + | 11 + |      |      | 5 -  | 15 x |
|      | 1 -  |       |      |      | 54 x | 17 + |      |      |
| 2 /  |      | 360 x |      |      |      |      |      |      |

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Fill in the blank squares so that each row and each column contain all of the digits 1 thru 9.

The heavy lines indicate areas (called cages) that contain groups of numbers that can be combined (in any order) to produce the result shown in the cage, with the indicated math operation. For example, 12x means you can multiply the values together to produce 12.

Numbers in cages may repeat, as long as they are not in the same row or column.

# Answers

Hard 9x9 Inky's by Krazydad, Volume 18, Book 86

Inky #1

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 7 | 8 | 4 | 3 | 2 | 6 | 1 | 9 | 5 |
| 4 | 2 | 9 | 5 | 1 | 7 | 3 | 8 | 6 |
| 8 | 5 | 1 | 6 | 4 | 2 | 9 | 7 | 3 |
| 1 | 4 | 3 | 2 | 5 | 9 | 8 | 6 | 7 |
| 2 | 1 | 6 | 9 | 3 | 8 | 7 | 5 | 4 |
| 5 | 9 | 2 | 8 | 7 | 3 | 6 | 4 | 1 |
| 3 | 7 | 8 | 4 | 6 | 5 | 2 | 1 | 9 |
| 9 | 6 | 7 | 1 | 8 | 4 | 5 | 3 | 2 |
| 6 | 3 | 5 | 7 | 9 | 1 | 4 | 2 | 8 |

Inky #2

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 4 | 6 | 7 | 3 | 1 | 9 | 5 | 2 | 8 |
| 9 | 7 | 3 | 1 | 5 | 2 | 8 | 6 | 4 |
| 1 | 4 | 8 | 5 | 7 | 6 | 9 | 3 | 2 |
| 2 | 5 | 1 | 9 | 6 | 4 | 7 | 8 | 3 |
| 6 | 8 | 9 | 4 | 2 | 5 | 3 | 7 | 1 |
| 3 | 2 | 5 | 8 | 4 | 1 | 6 | 9 | 7 |
| 8 | 1 | 2 | 6 | 3 | 7 | 4 | 5 | 9 |
| 5 | 3 | 4 | 7 | 9 | 8 | 2 | 1 | 6 |
| 7 | 9 | 6 | 2 | 8 | 3 | 1 | 4 | 5 |

Inky #3

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 3 | 4 | 5 | 7 | 8 | 6 | 2 | 9 |
| 9 | 6 | 7 | 3 | 2 | 1 | 4 | 5 | 8 |
| 7 | 9 | 8 | 2 | 1 | 4 | 5 | 3 | 6 |
| 8 | 2 | 3 | 6 | 4 | 5 | 9 | 1 | 7 |
| 4 | 5 | 6 | 8 | 9 | 2 | 3 | 7 | 1 |
| 3 | 4 | 2 | 7 | 8 | 6 | 1 | 9 | 5 |
| 6 | 8 | 9 | 1 | 5 | 3 | 7 | 4 | 2 |
| 5 | 7 | 1 | 4 | 6 | 9 | 2 | 8 | 3 |
| 2 | 1 | 5 | 9 | 3 | 7 | 8 | 6 | 4 |

Inky #4

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 5 | 2 | 6 | 3 | 8 | 4 | 7 | 9 | 1 |
| 8 | 7 | 2 | 5 | 1 | 6 | 3 | 4 | 9 |
| 7 | 4 | 9 | 8 | 6 | 3 | 5 | 1 | 2 |
| 3 | 5 | 7 | 1 | 4 | 9 | 8 | 2 | 6 |
| 9 | 3 | 5 | 6 | 2 | 1 | 4 | 8 | 7 |
| 6 | 9 | 8 | 2 | 3 | 7 | 1 | 5 | 4 |
| 1 | 8 | 4 | 7 | 9 | 2 | 6 | 3 | 5 |
| 2 | 6 | 1 | 4 | 5 | 8 | 9 | 7 | 3 |
| 4 | 1 | 3 | 9 | 7 | 5 | 2 | 6 | 8 |

Inky #5

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 9 | 2 | 8 | 4 | 7 | 1 | 6 | 3 | 5 |
| 6 | 1 | 2 | 3 | 9 | 4 | 8 | 5 | 7 |
| 7 | 3 | 4 | 1 | 6 | 2 | 5 | 9 | 8 |
| 4 | 7 | 5 | 9 | 3 | 6 | 1 | 8 | 2 |
| 1 | 8 | 9 | 2 | 5 | 7 | 3 | 4 | 6 |
| 8 | 6 | 1 | 5 | 4 | 9 | 2 | 7 | 3 |
| 2 | 5 | 7 | 8 | 1 | 3 | 4 | 6 | 9 |
| 3 | 4 | 6 | 7 | 8 | 5 | 9 | 2 | 1 |
| 5 | 9 | 3 | 6 | 2 | 8 | 7 | 1 | 4 |

Inky #6

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 8 | 2 | 5 | 3 | 9 | 1 | 7 | 4 | 6 |
| 5 | 4 | 3 | 1 | 7 | 6 | 8 | 9 | 2 |
| 4 | 7 | 8 | 6 | 5 | 3 | 9 | 2 | 1 |
| 3 | 1 | 2 | 5 | 6 | 8 | 4 | 7 | 9 |
| 1 | 6 | 9 | 8 | 4 | 2 | 5 | 3 | 7 |
| 2 | 3 | 1 | 9 | 8 | 7 | 6 | 5 | 4 |
| 9 | 8 | 4 | 7 | 2 | 5 | 1 | 6 | 3 |
| 6 | 5 | 7 | 4 | 3 | 9 | 2 | 1 | 8 |
| 7 | 9 | 6 | 2 | 1 | 4 | 3 | 8 | 5 |

Inky #7

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 7 | 4 | 6 | 2 | 8 | 5 | 1 | 3 | 9 |
| 3 | 8 | 1 | 7 | 6 | 4 | 5 | 9 | 2 |
| 8 | 1 | 3 | 6 | 9 | 2 | 7 | 4 | 5 |
| 1 | 2 | 4 | 9 | 5 | 7 | 6 | 8 | 3 |
| 9 | 6 | 5 | 1 | 2 | 3 | 8 | 7 | 4 |
| 6 | 5 | 7 | 8 | 4 | 9 | 3 | 2 | 1 |
| 4 | 7 | 9 | 3 | 1 | 8 | 2 | 5 | 6 |
| 5 | 3 | 2 | 4 | 7 | 1 | 9 | 6 | 8 |
| 2 | 9 | 8 | 5 | 3 | 6 | 4 | 1 | 7 |

Inky #8

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 2 | 8 | 9 | 1 | 7 | 4 | 3 | 5 | 6 |
| 5 | 6 | 4 | 7 | 3 | 8 | 9 | 1 | 2 |
| 6 | 9 | 3 | 5 | 8 | 1 | 2 | 7 | 4 |
| 9 | 5 | 1 | 2 | 4 | 3 | 8 | 6 | 7 |
| 8 | 7 | 6 | 3 | 1 | 5 | 4 | 2 | 9 |
| 3 | 1 | 7 | 4 | 6 | 2 | 5 | 9 | 8 |
| 4 | 3 | 2 | 6 | 9 | 7 | 1 | 8 | 5 |
| 7 | 4 | 5 | 8 | 2 | 9 | 6 | 3 | 1 |
| 1 | 2 | 8 | 9 | 5 | 6 | 7 | 4 | 3 |