

### Inky #1

|      |      |      |      |       |      |     |      |      |
|------|------|------|------|-------|------|-----|------|------|
| 24 x |      | 2 -  |      | 6 +   |      | 7 - | 13 + | 24 x |
| 1 -  |      | 4 /  |      | 3 -   | 2 /  |     |      |      |
| 63 x |      | 7 +  | 4 -  |       |      | 3 / |      | 4 /  |
| 4 -  |      |      |      | 108 x | 1 -  | 2 - | 60 x |      |
| 2 /  | 2 -  | 12 + |      |       |      |     |      | 9 x  |
|      |      | 4 /  | 2 /  |       | 35 x |     |      |      |
| 30 x | 10 + |      |      | 11 +  | 4 -  |     | 9 +  |      |
|      |      | 2 /  | 13 + |       | 4 /  |     | 21 + | 8 +  |
| 9 x  |      |      |      | 14 x  |      |     |      |      |

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### Inky #2

|      |     |     |      |      |     |       |       |      |
|------|-----|-----|------|------|-----|-------|-------|------|
| 15 + | 3 / |     | 24 x | 1 -  |     | 7 -   |       | 3 -  |
|      | 2 / | 2 - |      | 5 +  |     | 8 +   |       |      |
| 3 -  |     |     | 9 x  | 20 x |     | 7 +   | 5 -   |      |
|      | 7 - | 2 / |      | 2 -  | 3 / |       | 126 x |      |
| 24 x |     |     | 80 x |      |     | 2 -   |       | 6 x  |
|      |     |     |      |      |     | 16 +  |       | 13 + |
| 16 + |     | 2 / | 18 + |      |     |       |       | 9 x  |
|      |     |     | 5 +  |      |     | 192 x |       |      |
| 24 + |     |     |      | 4 -  |     | 48 x  |       |      |

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### Inky #3

|      |       |       |      |       |     |     |      |      |
|------|-------|-------|------|-------|-----|-----|------|------|
| 5 -  | 80 x  | 48 x  |      | 2 -   |     | 9 x |      | 13 + |
|      |       |       | 14 x | 10 +  |     | 7 + |      |      |
| 3 /  | 2 /   |       |      |       | 3 / | 3 - | 30 x |      |
|      | 324 x | 9 x   |      | 160 x |     | 1 - |      |      |
|      |       |       |      |       | 6 + |     | 11 + |      |
| 3 -  |       | 180 x | 2 /  |       |     | 2 - |      | 7 -  |
|      |       |       |      | 168 x |     | 3 / |      |      |
| 4 /  |       | 2 -   |      | 7 +   |     | 7 - |      | 14 + |
| 13 + |       | 7 +   |      | 3 -   |     |     |      |      |

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### Inky #4

|      |      |       |      |      |      |      |      |      |
|------|------|-------|------|------|------|------|------|------|
| 2 -  |      | 432 x |      | 2 /  |      | 8 +  |      | 12 + |
| 1 -  | 4 /  |       |      | 5 +  |      | 16 + | 56 x |      |
|      | 10 + |       | 15 x | 21 + |      |      |      |      |
| 4 -  |      | 2 /   |      |      |      | 4 -  | 2 -  | 5 -  |
| 2 /  | 5 -  |       | 13 + |      | 28 x |      |      |      |
|      |      | 3 /   |      | 1 -  |      | 1 -  |      | 9 x  |
| 2 /  |      | 392 x |      |      | 80 x |      | 3 /  |      |
| 28 x | 3 -  |       |      | 54 x |      |      |      | 3 /  |
|      |      | 14 +  |      | 11 + |      | 4 /  |      |      |

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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

|      |     |      |      |       |     |      |       |      |
|------|-----|------|------|-------|-----|------|-------|------|
| 9 x  |     | 80 x |      | 144 x | 1 - | 14 x | 3 -   |      |
|      | 3 - |      |      |       |     |      | 10 +  |      |
| 35 x |     | 2 /  | 18 x |       | 7 x |      | 2 /   |      |
|      |     |      | 3 /  | 2 -   | 3 / |      | 13 +  |      |
| 3 -  | 3 / |      |      |       | 4 / | 5 -  |       | 3 -  |
|      | 3 - |      | 17 + |       |     | 5 +  |       |      |
| 3 -  |     | 11 + |      |       | 2 / | 9 +  | 280 x | 12 x |
| 11 + |     | 7 x  |      | 9 +   |     |      |       |      |
| 14 + |     | 7 +  |      |       | 4 - |      |       |      |

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### Inky #6

|      |      |      |      |      |      |      |      |       |
|------|------|------|------|------|------|------|------|-------|
| 2 /  | 3 -  |      | 17 + |      | 18 + | 14 + | 35 x | 36 x  |
|      | 5 -  | 72 x | 5 +  |      |      |      |      |       |
| 7 -  |      |      |      | 1 -  |      | 3 /  | 1 -  |       |
|      | 8 +  |      | 3 /  |      | 10 + |      |      | 180 x |
| 5 -  | 45 x |      |      | 7 x  |      | 19 + | 6 x  |       |
|      | 21 + | 3 /  | 4 -  |      |      |      |      |       |
|      |      |      |      | 15 x |      | 32 x |      |       |
| 16 + |      | 1 -  | 1 -  | 9 x  |      | 3 /  |      | 6 -   |
|      |      |      |      | 7 -  |      | 10 + |      |       |

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### Inky #7

|      |     |      |      |      |      |       |      |      |
|------|-----|------|------|------|------|-------|------|------|
| 11 + |     | 14 + |      | 12 x |      | 432 x |      | 2 /  |
| 5 x  |     |      | 3 -  | 3 /  |      | 2 -   |      |      |
| 2 -  |     | 9 x  |      |      | 1 -  |       | 18 + |      |
| 8 +  | 7 + |      | 2 -  | 1 -  |      | 8 +   |      |      |
|      |     | 3 /  |      |      | 63 x | 4 /   |      | 9 +  |
| 3 /  | 4 / |      | 18 x |      |      | 7 +   |      |      |
|      |     | 7 +  | 10 x |      | 4 x  | 2 -   | 9 +  | 56 x |
| 3 /  | 4 - |      |      | 1 -  |      |       |      |      |
|      |     | 63 x |      |      | 2 -  |       | 3 /  |      |

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### Inky #8

|      |      |      |      |      |      |     |       |      |
|------|------|------|------|------|------|-----|-------|------|
| 2 -  |      | 9 x  |      | 9 +  | 2 -  |     | 18 x  | 8 x  |
| 1 -  |      | 2 /  |      |      | 13 + | 2 - |       |      |
| 3 /  |      | 13 + |      | 10 + |      |     | 19 +  |      |
| 90 x | 3 /  | 40 x |      |      | 2 /  |     |       | 12 + |
|      |      | 24 x |      | 11 + |      |     |       |      |
|      | 2 /  |      | 4 -  |      | 9 x  |     | 7 +   | 5 -  |
| 56 x | 12 x | 1 -  |      | 1 -  | 13 + |     |       |      |
|      |      |      | 72 x |      | 1 -  |     | 120 x | 3 -  |
| 6 -  |      |      |      | 7 +  |      |     |       |      |

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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 19, Book 13

Inky #1

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

Inky #2

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

Inky #3

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

Inky #4

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

Inky #5

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

Inky #6

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

Inky #7

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

Inky #8

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