

### Inky #1

|       |       |      |      |      |      |      |     |      |
|-------|-------|------|------|------|------|------|-----|------|
| 17 +  | 2 /   |      | 30 x |      | 21 x |      | 2 / |      |
|       | 315 x |      | 11 + | 36 x |      | 15 + |     | 1 -  |
|       | 504 x |      |      | 10 + |      | 7 -  |     |      |
|       |       | 13 + | 3 -  | 5 -  | 1 -  |      | 4 - |      |
| 128 x |       |      |      |      |      | 1 -  |     | 3 -  |
|       |       | 11 + | 6 +  | 3 /  |      | 14 + | 5 + |      |
| 3 /   |       |      |      | 15 + | 1 -  |      |     | 84 x |
| 5 -   | 5 x   | 3 /  |      |      |      | 28 x | 1 - |      |
|       |       | 3 /  |      | 10 x |      |      |     |      |

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### Inky #2

|      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|
| 56 x |      |      | 45 x |      | 7 -  | 3 /  |      | 60 x |
| 7 -  | 3 /  |      | 24 x |      |      | 22 + |      |      |
|      | 6 x  | 1 -  |      | 14 x | 7 +  |      |      | 6 +  |
| 30 x |      | 5 -  | 4 /  |      |      | 4 /  | 14 + |      |
|      | 4 -  |      |      | 12 + | 5 -  |      |      | 13 + |
| 3 /  |      | 15 + |      |      |      | 56 x |      |      |
|      | 6 -  |      |      | 30 x | 18 x | 5 +  | 1 -  |      |
| 3 -  | 14 + | 4 -  |      | 9 +  |      |      |      |      |
|      |      | 2 /  |      |      | 4 -  |      | 12 x |      |

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### Inky #3

|      |     |      |       |      |      |      |       |      |
|------|-----|------|-------|------|------|------|-------|------|
| 4 /  | 2 / |      | 31 +  |      | 35 x |      | 2 /   | 1 -  |
|      | 1 - |      |       |      | 17 + |      |       |      |
| 2 -  |     | 32 x |       |      | 6 x  |      |       | 10 + |
| 48 x | 6 + |      | 336 x | 6 x  |      | 11 + |       |      |
|      |     | 1 -  |       |      | 4 /  | 17 + |       |      |
| 6 x  |     |      | 3 /   | 8 +  |      | 17 + | 432 x | 1 -  |
| 7 -  | 3 - | 2 -  |       |      |      |      |       |      |
|      |     |      | 13 +  |      | 24 x |      |       | 2 /  |
| 3 -  |     |      |       | 63 x |      |      |       |      |

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### Inky #4

|      |      |      |       |      |      |      |       |      |
|------|------|------|-------|------|------|------|-------|------|
| 10 + | 24 x | 1 -  |       | 4 /  |      | 4 /  |       | 7 -  |
|      |      | 13 + |       | 6 -  | 7 +  | 13 + |       |      |
| 45 x | 9 +  |      | 1 -   |      |      | 2 /  | 3 /   |      |
|      | 2 x  |      |       | 48 x |      |      | 168 x |      |
| 4 /  |      | 6 -  |       | 3 /  |      | 12 + |       |      |
| 11 + |      | 10 + |       | 30 x | 3 -  |      | 11 +  | 21 x |
| 3 /  | 15 + | 4 -  | 216 x |      | 24 x |      |       |      |
|      |      |      |       |      | 3 -  | 4 /  |       | 3 -  |
| 4 /  |      | 21 x |       |      |      | 5 -  |       |      |

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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

|       |      |      |      |      |      |      |        |      |
|-------|------|------|------|------|------|------|--------|------|
| 192 x | 72 x |      | 3 -  |      | 12 + |      | 1 -    |      |
|       |      |      | 1 -  |      | 21 + | 21 x |        |      |
| 3 -   |      | 6 x  |      |      |      | 11 + | 5 -    | 21 + |
| 4 -   |      | 24 x | 7 +  |      |      |      |        |      |
| 2 /   | 2 -  |      | 4 /  |      | 6 x  |      | 20 x   |      |
|       |      | 9 +  |      | 3 /  | 13 + |      |        | 4 -  |
| 9 +   |      |      | 35 x |      | 13 + |      | 3456 x |      |
| 4 -   |      | 3 -  |      | 4 /  |      |      |        | 2 /  |
| 11 +  |      |      |      | 32 x |      |      |        |      |

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### Inky #6

|       |     |      |      |      |       |       |      |      |
|-------|-----|------|------|------|-------|-------|------|------|
| 192 x | 3 - |      | 4 -  | 3 /  | 2 /   |       | 35 x |      |
|       |     |      | 3 /  |      |       | 126 x | 15 + |      |
| 5 -   |     |      | 1 -  | 2 -  |       |       |      | 15 + |
| 13 +  |     | 1 -  |      | 4 /  | 3 /   | 45 x  | 4 /  |      |
| 7 +   | 9 x |      | 2 /  |      |       |       |      |      |
|       |     | 3 -  |      | 14 + |       |       |      | 2 -  |
| 24 x  | 8 + |      | 15 + |      | 13 +  |       | 4 /  |      |
|       |     | 72 x |      |      | 6 -   |       |      | 1 -  |
| 8 +   |     | 60 x |      |      | 432 x |       |      |      |

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### Inky #7

|      |      |     |      |      |      |      |      |      |
|------|------|-----|------|------|------|------|------|------|
| 9 x  |      | 1 - | 1 -  | 10 + | 8 +  | 8 x  | 5 -  |      |
| 15 + |      |     |      |      |      |      | 2 -  | 23 + |
| 5 -  |      | 5 - |      | 2 /  |      | 3 -  |      |      |
| 80 x |      |     | 72 x | 4 -  |      |      | 9 x  |      |
| 11 + |      | 2 / |      | 6 +  |      | 3 /  |      | 8 +  |
| 4 -  |      |     | 2 /  |      | 18 x |      | 48 x |      |
| 10 + | 6 -  |     | 4 -  |      |      | 15 x |      | 10 + |
|      | 54 x |     | 42 x | 6 -  | 14 + |      |      |      |
| 40 x |      |     |      |      |      | 13 + |      |      |

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### Inky #8

|      |      |      |      |      |      |      |       |     |
|------|------|------|------|------|------|------|-------|-----|
| 14 x | 6 x  |      | 4 /  |      | 1 -  |      | 72 x  |     |
|      | 1 -  |      | 5 +  | 1 -  | 14 + | 7 -  |       | 1 - |
| 11 + | 5 -  |      |      |      |      | 9 x  | 2 /   |     |
|      | 42 x |      | 18 + |      |      |      |       | 3 / |
| 1 -  |      | 10 + |      | 2 /  |      | 1 -  |       |     |
| 4 /  |      | 3 -  | 6 x  | 11 + | 14 x |      | 14 +  |     |
| 1 -  | 11 + |      |      |      | 11 + |      | 168 x |     |
|      |      | 9 x  | 24 x |      | 3 /  | 11 + |       |     |
| 13 + |      |      | 3 -  |      |      |      | 18 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 19, Book 21

Inky #1

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

Inky #2

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

Inky #3

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

Inky #4

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

Inky #5

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

Inky #6

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

Inky #7

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

Inky #8

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