



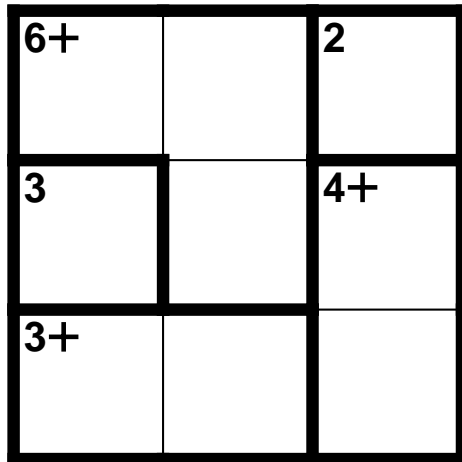
RULES FOR KENKEN®

Fill the grid with digits so as not to repeat a digit in any row or column, and so the digits within each heavily outlined box or boxes (called a cage) will produce the target number shown in that cage by using the operation (addition, subtraction, multiplication, or division) shown by the symbol after the numeral.

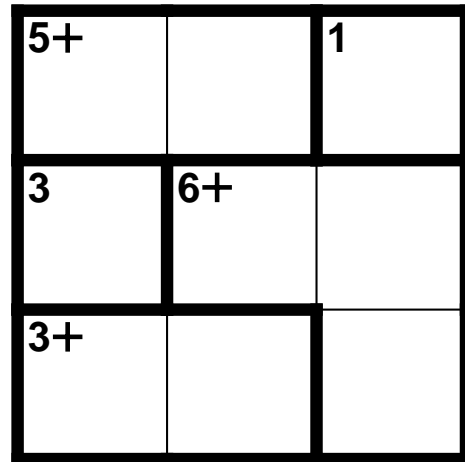
For single box cages, simply enter the number that is shown in the corner.

So, for example, the notation $6+$ means that the numerals in the cage should add up to 6, and the notation $48x$ means that by multiplying the numbers in the cage you will get 48. A 4x4 grid will use the digits 1-4. A 5x5 grid will use 1-5. A 6x6 grid will use 1-6, and so on.

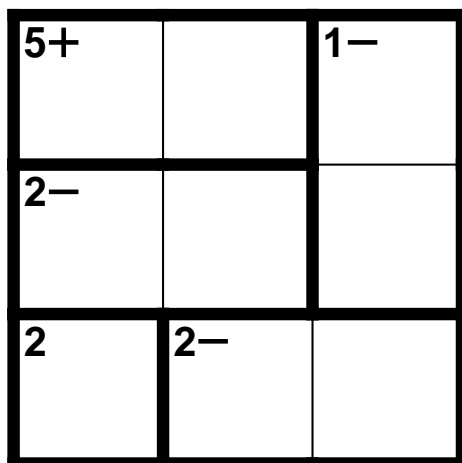
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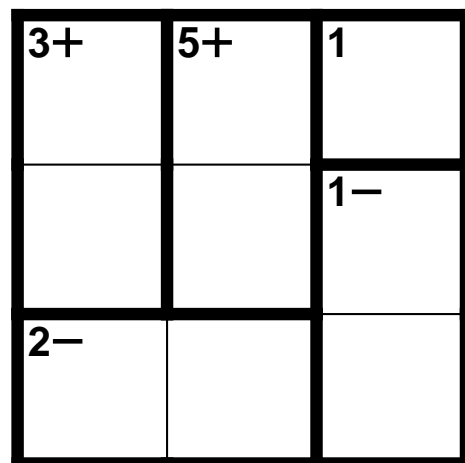
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| | | | |
|-----------|-----------|-----------|-----------|
| 9+ | | 5+ | |
| 3+ | | 1 | 7+ |
| | 8+ | 6+ | |
| | | | 1 |

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20-05

| | | | |
|-----------|-----------|-----------|-----------|
| 3+ | 6+ | 8+ | |
| | | 9+ | |
| 4+ | | | 3+ |
| 7+ | | | |

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20-06

| | | | |
|-----------|-----------|-----------|-----------|
| 3- | | 1- | 2- |
| 2- | | | |
| 5+ | 2- | 3- | |
| | | 6+ | |

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20-07

| | | | |
|-----------|-----------|-----------|----------|
| 3- | | 8+ | |
| 3+ | 9+ | | |
| | | 4+ | 4 |
| 1- | | | |

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20-08

| | | | |
|----|----|----|----|
| 1 | 2÷ | | 4+ |
| 1- | 2÷ | 3 | |
| | | 2÷ | |
| 1- | | 3- | |

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| | | | |
|----|----|-----|-----|
| 1- | | 24× | 3+ |
| 7+ | | | |
| | 3+ | | 10+ |
| | 1 | | |

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| | | | |
|----|----|-----|-------|
| 1- | | 20× | 3- |
| 4- | 2÷ | | 3 |
| | | 1- | 4- 5+ |
| 1- | | | |
| 6× | | 3- | 5 |

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| | | | |
|-----|----|-----|-------|
| 15× | | 2 | 5+ |
| 1- | | 2- | 2 20× |
| 2÷ | | | |
| 3- | 5+ | 4- | 1- |
| | | 12× | |

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| | | | | | |
|-----|-----|----|-----|----|-----|
| 60× | | 2÷ | | 4 | 11+ |
| | 1- | | 30× | | |
| 5- | 20× | | 2÷ | | 1- |
| | 30× | | | 2÷ | |
| 9+ | | 6× | 8+ | | 8× |
| | | | | | |

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| | | | | | |
|-----|----|-----|-----|-----|----|
| 6× | 3- | | 11+ | | 2- |
| | 3+ | | 2- | | |
| 36× | | 7+ | | 3- | |
| | | 20× | | 2÷ | |
| 15+ | | 3÷ | | 16× | |
| | 1- | | 3÷ | | |

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| | | | | | | |
|-----|-----|------|--|------|-----|----|
| 60× | | 2÷ | | 14+ | 60× | |
| 3- | | 6 | | | | 6× |
| | 42× | 210× | | | 3 | |
| 3- | | 84× | | | 3÷ | 9+ |
| | | | | | | |
| 1- | | 3÷ | | 600× | 6- | |
| 3÷ | | | | | 5- | |

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| | | | | | | |
|-----|-----|------|----|-----|-----|-----|
| 2- | 4- | 15+ | | | 60× | |
| | | | 6- | | | 24× |
| 6- | | 120× | | | | |
| 40× | | | 1 | 29+ | | |
| 14+ | | 2÷ | | | 8+ | |
| | 12+ | 40× | | | 6- | |
| | | | 2- | | | 5 |

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| | | | | | | | |
|-----|-----|----|----|-----|-----|------|-----|
| 7- | 2- | | 3- | | 4- | | 4÷ |
| | 1- | | 2- | 15+ | 10× | | |
| 2÷ | | 3+ | | | 12+ | 2- | |
| 15+ | | | 8× | 2÷ | | 20+ | |
| | 30× | | | | | 256× | |
| 40× | | | 4- | 4÷ | | | 11+ |
| | 56× | | | | 5- | | |
| | 9+ | | 8 | 15× | | | |

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| | | | | | | | |
|------|----|--|------|-----|-----|-----|-----|
| 21+ | 4÷ | | 160× | 12× | 42× | | |
| | | | | | | 84× | |
| | 3+ | | 84× | 26+ | 2- | | |
| 2- | | | | | | 7- | |
| 882× | 2÷ | | 3+ | | 3- | | 10× |
| | | | | | 13+ | | |
| 28× | | | 12+ | 15+ | 48× | | |
| 2÷ | | | | | | 3÷ | |

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| | | | | | | | |
|------|-----|------|-------|-----|-----|-----|------|
| 3÷ | 2- | | 96× | | 3- | | 7- |
| | 13+ | | 18+ | | 2÷ | | |
| 8× | 8+ | 192× | 1008× | | 36× | 8+ | 2- |
| | | | 8- | | 12+ | | |
| 15+ | | | | | | 35× | |
| 224× | 2÷ | | 1- | 42× | 8- | 3- | 252× |
| | | 17+ | | | 17+ | | |
| 16+ | | | | 96× | | 8- | 3÷ |
| | | 6- | | | | | |

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| | | | | | | | |
|-----|-----|----|-----|------|-----|------|--|
| 54× | | 5- | 20+ | | 3÷ | 3+ | |
| 63× | 7 | | 96× | | | 960× | |
| | | 3- | | 8- | 4 | | |
| 12+ | 11+ | | | 6- | 17+ | 13+ | |
| | | 4- | | 756× | 2÷ | | |
| 17+ | 11+ | | | | 3+ | 13+ | |
| | 32× | | 8+ | | 13+ | | |
| 14+ | | 7+ | 3÷ | 5- | | 20+ | |
| | 8+ | | | | 45× | | |

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| | | |
|----------------|---|----------------|
| ⁶ 1 | 3 | ² 2 |
| ³ 3 | 2 | ⁴ 1 |
| ³ 2 | 1 | 3 |

20-01

| | | |
|----------------|----------------|----------------|
| ⁵ 2 | 3 | ¹ 1 |
| ³ 3 | ⁶ 1 | 2 |
| ³ 1 | 2 | 3 |

20-02

| | | |
|----------------|----------------|----------------|
| ⁵ 3 | 2 | ¹ 1 |
| ² 1 | 3 | 2 |
| ² 2 | ² 1 | 3 |

20-03

| | | |
|----------------|----------------|----------------|
| ³ 2 | ⁵ 3 | ¹ 1 |
| 1 | 2 | ¹ 3 |
| ² 3 | 1 | 2 |

20-04

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

20-05

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

20-06

| | | | |
|----------------|----------------|----------------|----------------|
| ³ 1 | 4 | ¹ 2 | ² 3 |
| ² 4 | 2 | 3 | 1 |
| ⁵ 2 | ² 3 | ³ 1 | 4 |
| 3 | 1 | ⁶ 4 | 2 |

20-07

| | | | |
|----------------|----------------|----------------|----------------|
| ³ 4 | 1 | ⁸ 3 | 2 |
| ³ 1 | ⁹ 2 | 4 | 3 |
| 2 | 3 | ⁴ 1 | ⁴ 4 |
| ¹ 3 | 4 | 2 | 1 |

20-08

| | | | |
|----------------|----------------|----------------|----------------|
| ¹ 1 | ² 4 | 2 | ⁴ 3 |
| ¹ 4 | ² 2 | ³ 3 | 1 |
| 3 | 1 | ² 4 | 2 |
| ¹ 2 | 3 | ³ 1 | 4 |

20-09

| | | | |
|----------------|----------------|-----------------|-----------------|
| ¹ 3 | 4 | ²⁴ 2 | ³ 1 |
| ⁷ 1 | 3 | 4 | 2 |
| 4 | ³ 2 | 1 | ¹⁰ 3 |
| 2 | ¹ 1 | 3 | 4 |

20-10

| | | | | |
|----------------|----------------|-----------------|----------------|----------------|
| ¹ 3 | 4 | ²⁰ 5 | 2 | ³ 1 |
| ⁴ 5 | ² 1 | ³ 2 | 3 | 4 |
| 1 | 2 | ¹ 4 | ⁴ 5 | ⁵ 3 |
| ¹ 4 | 5 | 3 | 1 | 2 |
| ⁶ 2 | 3 | ³ 1 | ⁵ 4 | ⁵ 5 |

20-11

| | | | | |
|-----------------|----------------|-----------------|----------------|-----------------|
| ¹⁵ 3 | 5 | ² 2 | ⁵ 1 | 4 |
| ¹ 4 | 3 | ² 5 | ² 2 | ²⁰ 1 |
| ² 1 | 2 | 3 | 4 | 5 |
| ³ 2 | ⁵ 4 | ⁴ 1 | ⁵ 5 | ¹ 3 |
| 5 | 1 | ¹² 4 | 3 | 2 |

20-12

| | | | | | |
|-----------------|-----------------|----------------|-----------------|----------------|-----------------|
| ⁶⁰ 5 | 3 | ² 2 | 1 | ⁴ 4 | ¹¹ 6 |
| 4 | ¹ 2 | 3 | ³⁰ 6 | 1 | 5 |
| ⁵ 6 | ²⁰ 1 | 4 | ² 2 | ¹ 5 | 3 |
| 1 | ³⁰ 6 | 5 | 4 | 3 | 2 |
| ⁹ 2 | 5 | ⁶ 1 | ⁸ 3 | ⁸ 6 | 4 |
| 3 | 4 | 6 | 5 | 2 | 1 |

20-13

| | | | | | |
|-----------------|----------------|-----------------|-----------------|-----------------|---|
| ⁶ 2 | ³ 4 | 1 | ¹¹ 6 | ² 5 | 3 |
| 3 | 1 | 2 | ⁴ 4 | 6 | 5 |
| ³⁶ 6 | ⁷ 3 | 5 | ³ 2 | 4 | 1 |
| 1 | 2 | ²⁰ 4 | ² 5 | ³ 6 | |
| ¹⁵ 5 | 6 | ³ 3 | 1 | ¹⁶ 2 | 4 |
| 4 | 5 | 6 | ³ 3 | 1 | 2 |

20-14

| | | | | | | |
|-----------------|-----------------|-----------------|------------------|-----------------|----------------|---|
| ⁶⁰ 6 | 5 | ² 1 | ¹⁴ 2 | ⁶⁰ 7 | 4 | 3 |
| ³ 7 | ⁶ 2 | ⁶ 4 | 3 | ⁶ 5 | 1 | |
| 4 | 1 | ⁴² 5 | ²¹⁰ 7 | ³ 2 | ³ 6 | |
| ³ 5 | ⁸⁴ 6 | ⁷ 3 | ¹ 2 | ³ 9 | ⁹ 4 | |
| 2 | 7 | 3 | 1 | 4 | 6 | 5 |
| ¹ 3 | 4 | ³ 2 | ⁶⁰⁰ 6 | ⁶ 5 | ¹ 7 | |
| ³ 1 | 3 | 4 | 5 | ⁵ 6 | ⁷ 2 | |

20-15

| | | | | | | |
|-----------------|-----------------|------------------|-----------------|-----------------|----------------|---|
| ² 4 | ⁴ 1 | ¹⁵ 7 | 3 | ⁶⁰ 2 | ⁵ 6 | 6 |
| ⁶ 6 | ⁵ 3 | ⁷ 1 | 2 | ²⁴ 4 | | |
| ⁶ 1 | ⁷ 6 | ¹²⁰ 4 | ⁵ 3 | 2 | | |
| ⁴⁰ 2 | 4 | ¹ 5 | ²⁹ 3 | ⁶ 7 | | |
| ¹⁴ 5 | ⁶ 6 | ² 1 | 2 | ⁸ 7 | ⁴ 3 | |
| 3 | ¹² 2 | ⁴⁰ 4 | 5 | ⁶ 6 | ⁷ 1 | |
| ⁷ 3 | 2 | ² 6 | 4 | ⁵ 1 | ⁵ 5 | |

20-16

| | | | | | | |
|-----------------|----------------|-----------------|-----------------|------------------|-----------------|---|
| ⁷ 1 | ² 8 | ³ 6 | ⁵ 2 | ⁴ 7 | ³ 4 | 4 |
| ⁸ 4 | ³ 3 | ⁶ 7 | ¹⁵ 5 | ¹⁰ 2 | 1 | |
| ² 6 | ³ 1 | ⁴ 8 | ¹² 2 | ² 5 | 7 | |
| ¹⁵ 3 | 5 | ² 1 | ⁶ 4 | ²⁰ 7 | 8 | |
| ⁷ 1 | 4 | ³⁰ 2 | ³ 6 | ²⁵⁶ 8 | 5 | |
| ⁴⁰ 2 | 6 | 5 | ⁴ 7 | ⁴ 1 | ¹¹ 8 | 4 |
| 5 | 7 | 8 | ⁵⁶ 3 | ⁵ 4 | 1 | 6 |
| 4 | ⁹ 2 | ⁸ 7 | ¹⁵ 5 | ³ 1 | 6 | |

20-17

| | | | | | | |
|------------------|----------------|------------------|-----------------|-----------------|-----------------|---|
| ²¹ 5 | ⁴ 2 | ¹⁶⁰ 8 | ¹² 4 | ⁴² 3 | ⁷ 6 | 1 |
| 2 | ⁶ 5 | ⁸ 1 | ⁴ 4 | ⁸⁴ 3 | 7 | |
| ⁸ 1 | ³ 2 | ⁶⁴ 3 | ²⁶ 2 | ² 5 | ⁷ 4 | |
| ² 3 | 5 | 4 | ⁷ 2 | ⁶ 1 | 8 | |
| ⁸⁸² 7 | ³ 3 | ² 6 | ² 8 | ¹ 4 | ¹⁰ 5 | |
| 6 | 7 | 3 | 1 | ¹³ 4 | ⁸ 5 | 2 |
| ²⁶ 1 | 4 | ¹² 7 | ¹⁵ 6 | ⁴⁸ 2 | ⁸ 3 | |
| ² 4 | 8 | 1 | 5 | ³ 7 | ³ 2 | 6 |

20-18

| | | | | | | |
|------------------|----------------|-------------------|-----------------|-----------------|------------------|-----------------|
| ⁹ 9 | ² 5 | ⁹⁶ 3 | ⁶ 8 | ⁵ 7 | ⁴ 1 | ¹⁷ 1 |
| ¹³ 3 | ⁴ 9 | ¹¹ 6 | ⁵ 7 | ¹ 2 | 8 | |
| ⁸ 1 | ⁶ 7 | ¹⁰⁰⁸ 9 | ³⁶ 2 | ⁸ 3 | ² 5 | 4 |
| 1 | 7 | 4 | ¹² 9 | ⁵ 6 | ³ 2 | |
| ¹⁵ 6 | ⁹ 8 | 1 | ⁴ 3 | ³⁵ 2 | ⁷ 5 | |
| ²²⁴ 7 | ² 2 | ¹ 4 | ⁴² 3 | ⁸ 9 | ²⁵² 5 | ⁶ 6 |
| 4 | 8 | ¹⁷ 5 | ³ 2 | ¹⁷ 1 | ⁹ 6 | 7 |
| ¹⁶ 2 | ⁶ 7 | ⁵ 1 | ⁹⁶ 4 | ⁸ 9 | ³ 3 | |
| 5 | ³ 2 | 8 | 7 | 6 | 4 | 1 |

20-19

| | | | | | | |
|-----------------|-----------------|------------------|-----------------|------------------|----------------|---|
| ⁶⁴ 6 | ⁵ 9 | ²⁰ 4 | ⁸ 7 | ⁵ 3 | ⁵ 2 | 1 |
| ⁶³ 3 | ⁷ 9 | ² 8 | ⁶ 1 | ⁹⁶⁰ 4 | 5 | |
| 7 | 3 | ³ 5 | ⁹ 1 | ⁴ 6 | 8 | |
| ¹² 5 | ¹¹ 2 | ³ 6 | ¹ 7 | ¹⁷ 9 | ⁸ 4 | |
| 1 | ⁶ 5 | ⁹³⁶ 3 | ⁴ 8 | ⁷ 2 | | |
| ¹⁷ 8 | ⁵ 6 | ⁷ 4 | ⁹ 2 | ¹ 3 | | |
| ⁹ 4 | ³² 8 | ¹ 5 | ² 6 | ³ 7 | | |
| ¹⁴ 2 | ⁸ 1 | ⁷ 4 | ⁶ 3 | ²⁰ 7 | ⁵ 9 | |
| ⁴ 1 | ⁸ 7 | ³ 2 | ⁸⁵ 5 | ⁹ 6 | | |

20-20