

# Magic Squares: Fractions

Name: \_\_\_\_\_ Date: \_\_\_\_\_



A magic square is a grid of numbers where the values in each of the rows, columns and diagonals adds up to the same sum, known as the “magic number.” Use your math skills to fill in each of these magic squares.

The magic number is  $9\frac{3}{8}$ .

		$1\frac{1}{4}$
$\frac{5}{8}$		
5		

The magic number is  $7\frac{5}{9}$ .

$2\frac{2}{3}$	$1\frac{5}{9}$		2
	$2\frac{4}{9}$	$2\frac{2}{9}$	$1\frac{1}{9}$
		$\frac{2}{3}$	$3\frac{5}{9}$

The magic number is  $21\frac{2}{3}$ .

		$\frac{1}{3}$	$2\frac{2}{3}$	5
$7\frac{2}{3}$	$1\frac{2}{3}$	$2\frac{1}{3}$		$5\frac{1}{3}$
			$6\frac{2}{3}$	
$3\frac{1}{3}$	4			
$3\frac{2}{3}$	6	$8\frac{1}{3}$	$\frac{2}{3}$	

The magic number is  $83\frac{1}{4}$ .

	$4\frac{1}{2}$	$26\frac{1}{4}$			$10\frac{1}{2}$
6		$24\frac{3}{4}$		12	
	$19\frac{1}{2}$			$8\frac{1}{4}$	$7\frac{1}{2}$
$18\frac{3}{4}$		15	$12\frac{3}{4}$	$6\frac{3}{4}$	9
	$16\frac{1}{2}$		$1\frac{1}{2}$	$23\frac{1}{4}$	$22\frac{1}{2}$
$15\frac{3}{4}$		$\frac{3}{4}$	3	$21\frac{3}{4}$	24

# Magic Squares: Fractions

## ANSWER KEY



A magic square is a grid of numbers where the values in each of the rows, columns and diagonals adds up to the same sum, known as the "magic number." Use your math skills to fill in each of these magic squares.

The magic number is  $9\frac{3}{8}$ .

$3\frac{3}{4}$	$4\frac{3}{8}$	$1\frac{1}{4}$
$\frac{5}{8}$	$3\frac{1}{8}$	$5\frac{5}{8}$
5	$1\frac{7}{8}$	$2\frac{1}{2}$

The magic number is  $7\frac{5}{9}$ .

$\frac{2}{9}$	$3\frac{1}{9}$	$3\frac{1}{3}$	$\frac{8}{9}$
$2\frac{2}{3}$	$1\frac{5}{9}$	$1\frac{1}{3}$	2
$1\frac{7}{9}$	$2\frac{4}{9}$	$2\frac{2}{9}$	$1\frac{1}{9}$
$2\frac{8}{9}$	$\frac{4}{9}$	$\frac{2}{3}$	$3\frac{5}{9}$

The magic number is  $21\frac{2}{3}$ .

$5\frac{2}{3}$	8	$\frac{1}{3}$	$2\frac{2}{3}$	5
$7\frac{2}{3}$	$1\frac{2}{3}$	$2\frac{1}{3}$	$4\frac{2}{3}$	$5\frac{1}{3}$
$1\frac{1}{3}$	2	$4\frac{1}{3}$	$6\frac{2}{3}$	$7\frac{1}{3}$
$3\frac{1}{3}$	4	$6\frac{1}{3}$	7	1
$3\frac{2}{3}$	6	$8\frac{1}{3}$	$\frac{2}{3}$	3

The magic number is  $83\frac{1}{4}$ .

$5\frac{1}{4}$	$4\frac{1}{2}$	$26\frac{1}{4}$	$25\frac{1}{2}$	$11\frac{1}{4}$	$10\frac{1}{2}$
6	$3\frac{3}{4}$	$24\frac{3}{4}$	27	12	$9\frac{3}{4}$
$20\frac{1}{4}$	$19\frac{1}{2}$	$14\frac{1}{4}$	$13\frac{1}{2}$	$8\frac{1}{4}$	$7\frac{1}{2}$
$18\frac{3}{4}$	21	15	$12\frac{3}{4}$	$6\frac{3}{4}$	9
$17\frac{1}{4}$	$16\frac{1}{2}$	$2\frac{1}{4}$	$1\frac{1}{2}$	$23\frac{1}{4}$	$22\frac{1}{2}$
$15\frac{3}{4}$	18	$\frac{3}{4}$	3	$21\frac{3}{4}$	24

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A magic square is a grid of numbers where the values in each of the rows, columns and diagonals adds up to the same sum, known as the “magic number.” Use your math skills to fill in each of these magic squares.

The magic number is  $8\frac{1}{3}$ .

		$\frac{5}{9}$
	$3\frac{8}{9}$	$3\frac{1}{3}$

The magic number is 17.

	7	$7\frac{1}{2}$	
			$4\frac{1}{2}$
	$5\frac{1}{2}$	5	$2\frac{1}{2}$
$6\frac{1}{2}$		$1\frac{1}{2}$	

The magic number is  $40\frac{5}{8}$ .

$5\frac{5}{8}$	$1\frac{1}{4}$		$11\frac{1}{4}$	
$1\frac{7}{8}$		$11\frac{7}{8}$	$7\frac{1}{2}$	$6\frac{1}{4}$
$13\frac{3}{4}$		$8\frac{1}{8}$		
10	$8\frac{3}{4}$			$14\frac{3}{8}$
	5			$10\frac{5}{8}$

The magic number is  $138\frac{3}{4}$ .

$17\frac{1}{2}$			15	$37\frac{1}{2}$	40
	20	$13\frac{3}{4}$	$11\frac{1}{4}$		$36\frac{1}{4}$
$42\frac{1}{2}$		$22\frac{1}{2}$	$21\frac{1}{4}$		5
$43\frac{3}{4}$			25	$3\frac{3}{4}$	
$7\frac{1}{2}$	$6\frac{1}{4}$				30
$8\frac{3}{4}$		$33\frac{3}{4}$	$31\frac{1}{4}$	$28\frac{3}{4}$	$26\frac{1}{4}$

# Magic Squares: Fractions

## ANSWER KEY



A magic square is a grid of numbers where the values in each of the rows, columns and diagonals adds up to the same sum, known as the "magic number." Use your math skills to fill in each of these magic squares.

The magic number is  $8\frac{1}{3}$ .

$2\frac{2}{9}$	$1\frac{2}{3}$	$4\frac{4}{9}$
5	$2\frac{7}{9}$	$\frac{5}{9}$
$1\frac{1}{9}$	$3\frac{8}{9}$	$3\frac{1}{3}$

The magic number is 17.

$\frac{1}{2}$	7	$7\frac{1}{2}$	2
6	$3\frac{1}{2}$	3	$4\frac{1}{2}$
4	$5\frac{1}{2}$	5	$2\frac{1}{2}$
$6\frac{1}{2}$	1	$1\frac{1}{2}$	8

The magic number is  $40\frac{5}{8}$ .

$5\frac{5}{8}$	$1\frac{1}{4}$	$15\frac{5}{8}$	$11\frac{1}{4}$	$6\frac{7}{8}$
$1\frac{7}{8}$	$13\frac{1}{8}$	$11\frac{7}{8}$	$7\frac{1}{2}$	$6\frac{1}{4}$
$13\frac{3}{4}$	$12\frac{1}{2}$	$8\frac{1}{8}$	$3\frac{3}{4}$	$2\frac{1}{2}$
10	$8\frac{3}{4}$	$4\frac{3}{8}$	$3\frac{1}{8}$	$14\frac{3}{8}$
$9\frac{3}{8}$	5	$\frac{5}{8}$	15	$10\frac{5}{8}$

The magic number is  $138\frac{3}{4}$ .

$17\frac{1}{2}$	$16\frac{1}{4}$	$12\frac{1}{2}$	15	$37\frac{1}{2}$	40
$18\frac{3}{4}$	20	$13\frac{3}{4}$	$11\frac{1}{4}$	$38\frac{3}{4}$	$36\frac{1}{4}$
$42\frac{1}{2}$	45	$22\frac{1}{2}$	$21\frac{1}{4}$	$2\frac{1}{2}$	5
$43\frac{3}{4}$	$4\frac{1}{4}$	$23\frac{3}{4}$	25	$3\frac{3}{4}$	$1\frac{1}{4}$
$7\frac{1}{2}$	$6\frac{1}{4}$	$32\frac{1}{2}$	35	$27\frac{1}{2}$	30
$8\frac{3}{4}$	10	$33\frac{3}{4}$	$31\frac{1}{4}$	$28\frac{3}{4}$	$26\frac{1}{4}$

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The magic number is  $22\frac{2}{3}$ .

	$5\frac{1}{3}$		
	$7\frac{1}{3}$		$9\frac{1}{3}$
		4	10
	$3\frac{1}{3}$	6	$2\frac{2}{3}$

The magic number is  $28\frac{8}{9}$ .

4	$\frac{8}{9}$	$11\frac{1}{9}$		
$1\frac{1}{3}$	$9\frac{1}{3}$		$5\frac{1}{3}$	$4\frac{4}{9}$
$9\frac{7}{9}$		$5\frac{7}{9}$	$2\frac{2}{3}$	
	$6\frac{2}{9}$			$10\frac{2}{9}$
$6\frac{2}{3}$		$\frac{4}{9}$		

The magic number is 37.

7			9	$2\frac{2}{3}$	$2\frac{1}{3}$
8	$7\frac{1}{3}$	$9\frac{1}{3}$			2
$\frac{1}{3}$	1	$6\frac{2}{3}$	$6\frac{1}{3}$	11	
	$\frac{2}{3}$	$5\frac{2}{3}$		12	$11\frac{1}{3}$
	$10\frac{1}{3}$	3			5
$10\frac{2}{3}$	10			$4\frac{1}{3}$	

The magic number is  $97\frac{2}{9}$ .

$11\frac{1}{9}$	$6\frac{1}{9}$	$1\frac{1}{9}$			$17\frac{2}{9}$	$12\frac{2}{9}$
$6\frac{2}{3}$		$23\frac{8}{9}$		$17\frac{7}{9}$		$11\frac{2}{3}$
	$24\frac{4}{9}$	$23\frac{1}{3}$		$13\frac{1}{3}$	$8\frac{1}{3}$	$7\frac{2}{9}$
25	20		$13\frac{8}{9}$	$8\frac{8}{9}$	$7\frac{7}{9}$	$2\frac{7}{9}$
$20\frac{5}{9}$	$19\frac{4}{9}$		$9\frac{4}{9}$	$4\frac{4}{9}$		
$16\frac{1}{9}$		10		$3\frac{8}{9}$	$26\frac{1}{9}$	$21\frac{1}{9}$
$15\frac{5}{9}$		$5\frac{5}{9}$		$26\frac{2}{3}$	$21\frac{2}{3}$	$16\frac{2}{3}$

# Magic Squares: Fractions

## ANSWER KEY



A magic square is a grid of numbers where the values in each of the rows, columns and diagonals adds up to the same sum, known as the "magic number." Use your math skills to fill in each of these magic squares.

The magic number is  $22\frac{2}{3}$ .

$8\frac{2}{3}$	$5\frac{1}{3}$	8	$\frac{2}{3}$
$1\frac{1}{3}$	$7\frac{1}{3}$	$4\frac{2}{3}$	$9\frac{1}{3}$
2	$6\frac{2}{3}$	4	10
$10\frac{2}{3}$	$3\frac{1}{3}$	6	$2\frac{2}{3}$

The magic number is  $28\frac{8}{9}$ .

4	$\frac{8}{9}$	$11\frac{1}{9}$	8	$4\frac{8}{9}$
$1\frac{1}{3}$	$9\frac{1}{3}$	$8\frac{4}{9}$	$5\frac{1}{3}$	$4\frac{4}{9}$
$9\frac{7}{9}$	$8\frac{8}{9}$	$5\frac{7}{9}$	$2\frac{2}{3}$	$1\frac{7}{9}$
$7\frac{1}{9}$	$6\frac{2}{9}$	$3\frac{1}{9}$	$2\frac{2}{9}$	$10\frac{2}{9}$
$6\frac{2}{3}$	$3\frac{5}{9}$	$\frac{4}{9}$	$10\frac{2}{3}$	$7\frac{5}{9}$

The magic number is 37.

7	$7\frac{2}{3}$	$8\frac{1}{3}$	9	$2\frac{2}{3}$	$2\frac{1}{3}$
8	$7\frac{1}{3}$	$9\frac{1}{3}$	$8\frac{2}{3}$	$1\frac{2}{3}$	2
$\frac{1}{3}$	1	$6\frac{2}{3}$	$6\frac{1}{3}$	11	$11\frac{2}{3}$
$1\frac{1}{3}$	$\frac{2}{3}$	$5\frac{2}{3}$	6	12	$11\frac{1}{3}$
$9\frac{2}{3}$	$10\frac{1}{3}$	3	$3\frac{2}{3}$	$5\frac{1}{3}$	5
$10\frac{2}{3}$	10	4	$3\frac{1}{3}$	$4\frac{1}{3}$	$4\frac{2}{3}$

The magic number is  $97\frac{2}{9}$ .

$11\frac{1}{9}$	$6\frac{1}{9}$	$1\frac{1}{9}$	$27\frac{2}{9}$	$22\frac{2}{9}$	$17\frac{2}{9}$	$12\frac{2}{9}$
$6\frac{2}{3}$	$1\frac{2}{3}$	$23\frac{8}{9}$	$22\frac{7}{9}$	$17\frac{7}{9}$	$12\frac{7}{9}$	$11\frac{2}{3}$
$2\frac{2}{9}$	$24\frac{4}{9}$	$23\frac{1}{3}$	$18\frac{1}{3}$	$13\frac{1}{3}$	$8\frac{1}{3}$	$7\frac{2}{9}$
25	20	$18\frac{8}{9}$	$13\frac{8}{9}$	$8\frac{8}{9}$	$7\frac{7}{9}$	$2\frac{7}{9}$
$20\frac{5}{9}$	$19\frac{4}{9}$	$14\frac{4}{9}$	$9\frac{4}{9}$	$4\frac{4}{9}$	$3\frac{1}{3}$	$25\frac{5}{9}$
$16\frac{1}{9}$	15	10	5	$3\frac{8}{9}$	$26\frac{1}{9}$	$21\frac{1}{9}$
$15\frac{5}{9}$	$10\frac{5}{9}$	$5\frac{5}{9}$	$\frac{5}{9}$	$26\frac{2}{3}$	$21\frac{2}{3}$	$16\frac{2}{3}$

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A magic square is a grid of numbers where the values in each of the rows, columns and diagonals adds up to the same sum, known as the “magic number.” Use your math skills to fill in each of these magic squares.

The magic number is  $18\frac{3}{4}$ .

5	$3\frac{3}{4}$	
	$8\frac{3}{4}$	

The magic number is 17.

	7	$7\frac{1}{2}$	
6			$4\frac{1}{2}$
	$5\frac{1}{2}$		$2\frac{1}{2}$
$6\frac{1}{2}$	1		

The magic number is  $43\frac{1}{3}$ .

6	$1\frac{1}{3}$	$16\frac{2}{3}$		
2	14	$12\frac{2}{3}$		$6\frac{2}{3}$
	$13\frac{1}{3}$		4	
$10\frac{2}{3}$	$9\frac{1}{3}$		$3\frac{1}{3}$	
			16	$11\frac{1}{3}$

The magic number is 74.

$21\frac{1}{3}$	$19\frac{1}{3}$	$2\frac{2}{3}$		16	
	$20\frac{2}{3}$				$15\frac{1}{3}$
8		$11\frac{1}{3}$	$13\frac{1}{3}$	$18\frac{2}{3}$	$16\frac{2}{3}$
	$7\frac{1}{3}$	12			18
$8\frac{2}{3}$		24	22	$3\frac{1}{3}$	
$9\frac{1}{3}$	10	$22\frac{2}{3}$		4	$4\frac{2}{3}$

# Magic Squares: Fractions

## ANSWER KEY



A magic square is a grid of numbers where the values in each of the rows, columns and diagonals adds up to the same sum, known as the "magic number." Use your math skills to fill in each of these magic squares.

The magic number is  $18\frac{3}{4}$ .

5	$3\frac{3}{4}$	10
$11\frac{1}{4}$	$6\frac{1}{4}$	$1\frac{1}{4}$
$2\frac{1}{2}$	$8\frac{3}{4}$	$7\frac{1}{2}$

The magic number is 17.

$\frac{1}{2}$	7	$7\frac{1}{2}$	2
6	$3\frac{1}{2}$	3	$4\frac{1}{2}$
4	$5\frac{1}{2}$	5	$2\frac{1}{2}$
$6\frac{1}{2}$	1	$1\frac{1}{2}$	8

The magic number is  $43\frac{1}{3}$ .

6	$1\frac{1}{3}$	$16\frac{2}{3}$	12	$7\frac{1}{3}$
2	14	$12\frac{2}{3}$	8	$6\frac{2}{3}$
$14\frac{2}{3}$	$13\frac{1}{3}$	$8\frac{2}{3}$	4	$2\frac{2}{3}$
$10\frac{2}{3}$	$9\frac{1}{3}$	$4\frac{2}{3}$	$3\frac{1}{3}$	$15\frac{1}{3}$
10	$5\frac{1}{3}$	$\frac{2}{3}$	16	$11\frac{1}{3}$

The magic number is 74.

$21\frac{1}{3}$	$19\frac{1}{3}$	$2\frac{2}{3}$	$\frac{2}{3}$	16	14
20	$20\frac{2}{3}$	$1\frac{1}{3}$	2	$14\frac{2}{3}$	$15\frac{1}{3}$
8	6	$11\frac{1}{3}$	$13\frac{1}{3}$	$18\frac{2}{3}$	$16\frac{2}{3}$
$6\frac{2}{3}$	$7\frac{1}{3}$	12	$12\frac{2}{3}$	$17\frac{1}{3}$	18
$8\frac{2}{3}$	$10\frac{2}{3}$	24	22	$3\frac{1}{3}$	$5\frac{1}{3}$
$9\frac{1}{3}$	10	$22\frac{2}{3}$	$23\frac{1}{3}$	4	$4\frac{2}{3}$



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A magic square is a grid of numbers where the values in each of the rows, columns and diagonals adds up to the same sum, known as the “magic number.” Use your math skills to fill in each of these magic squares.

The magic number is  $11\frac{1}{4}$ .

		$1\frac{1}{2}$
		$6\frac{3}{4}$
6		

The magic number is  $11\frac{1}{3}$ .

	1	$\frac{2}{3}$	$4\frac{1}{3}$
$1\frac{2}{3}$			
3	2	$2\frac{1}{3}$	
	5		

The magic number is  $32\frac{1}{2}$ .

	1		9	$5\frac{1}{2}$
	$10\frac{1}{2}$	$9\frac{1}{2}$		5
	10	$6\frac{1}{2}$	3	
8	7		$2\frac{1}{2}$	
$7\frac{1}{2}$		$\frac{1}{2}$		

The magic number is  $41\frac{5}{8}$ .

$5\frac{1}{4}$	$4\frac{7}{8}$	$3\frac{3}{4}$	$4\frac{1}{2}$		12
	6	$4\frac{1}{8}$		$11\frac{5}{8}$	$10\frac{7}{8}$
	$13\frac{1}{2}$	$6\frac{3}{4}$	$6\frac{3}{8}$		$1\frac{1}{2}$
	$12\frac{3}{8}$		$7\frac{1}{2}$	$1\frac{1}{8}$	$\frac{3}{8}$
$2\frac{1}{4}$		$9\frac{3}{4}$			9
$2\frac{5}{8}$	3			$8\frac{5}{8}$	

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A magic square is a grid of numbers where the values in each of the rows, columns and diagonals adds up to the same sum, known as the "magic number." Use your math skills to fill in each of these magic squares.

The magic number is  $11\frac{1}{4}$ .

$4\frac{1}{2}$	$5\frac{1}{4}$	$1\frac{1}{2}$
$\frac{3}{4}$	$3\frac{3}{4}$	$6\frac{3}{4}$
6	$2\frac{1}{4}$	3

The magic number is  $11\frac{1}{3}$ .

$5\frac{1}{3}$	1	$\frac{2}{3}$	$4\frac{1}{3}$
$1\frac{2}{3}$	$3\frac{1}{3}$	$3\frac{2}{3}$	$2\frac{2}{3}$
3	2	$2\frac{1}{3}$	4
$1\frac{1}{3}$	5	$4\frac{2}{3}$	$\frac{1}{3}$

The magic number is  $32\frac{1}{2}$ .

$4\frac{1}{2}$	1	$12\frac{1}{2}$	9	$5\frac{1}{2}$
$1\frac{1}{2}$	$10\frac{1}{2}$	$9\frac{1}{2}$	6	5
11	10	$6\frac{1}{2}$	3	2
8	7	$3\frac{1}{2}$	$2\frac{1}{2}$	$11\frac{1}{2}$
$7\frac{1}{2}$	4	$\frac{1}{2}$	12	$8\frac{1}{2}$

The magic number is  $41\frac{5}{8}$ .

$5\frac{1}{4}$	$4\frac{7}{8}$	$3\frac{3}{4}$	$4\frac{1}{2}$	$11\frac{1}{4}$	12
$5\frac{5}{8}$	6	$4\frac{1}{8}$	$3\frac{3}{8}$	$11\frac{5}{8}$	$10\frac{7}{8}$
$12\frac{3}{4}$	$13\frac{1}{2}$	$6\frac{3}{4}$	$6\frac{3}{8}$	$\frac{3}{4}$	$1\frac{1}{2}$
$13\frac{1}{8}$	$12\frac{3}{8}$	$7\frac{1}{8}$	$7\frac{1}{2}$	$1\frac{1}{8}$	$\frac{3}{8}$
$2\frac{1}{4}$	$1\frac{7}{8}$	$9\frac{3}{4}$	$10\frac{1}{2}$	$8\frac{1}{4}$	9
$2\frac{5}{8}$	3	$10\frac{1}{8}$	$9\frac{3}{8}$	$8\frac{5}{8}$	$7\frac{7}{8}$