DECIMAL FRACTION MAGIC SQUARES

In a Decimal Fraction Magic Square the rows, columns, and diagonals **all add up** to the same decimal fraction. This is the Magic Decimal Fraction.

Complete the Decimal Fraction Magic Squares and find the Magic Decimal Fraction (MDF) for each square.

1)

0.7		
	0.6	0.4
		0.5

MDF =

(2)

		1.1
	0.8	0.6
		0.7

MDF =

(3)

		1.2
0.7	1.1	1.5

MDF =

4)

0.2	0.9	0.4
	0.1	

MDF =

(5)

0.5		
1.2		0.2
0.4		

MDF =

(6)

	1.7	
1.1	0.1	1.5

MDF =

7)

0.3		
	0.6	0.1
		0.9

MDF =

(8)

		0.6
0.5	1.2	0.7

MDF =

(9)

		0.6
	0.9	0.8
1.1		

MDF =

10)

1.3	0.2	
1.1		
0.5		

MDF =

(11)

1.6	1.2	0.8
		1.3

MDF =

(12)

		1.2
	1.1	
1.0		1.4

MDF =

Complete the Decimal Fraction Magic Square. The Magic Decimal Fraction is given for each problem.

13)

0.9		1.7
		2.1

MDF = 4.5

(14)

1.2		
	1.8	1.1

MDF = 4.2

(15)

1.1		
	1.3	
1.9		

MDF = 3.9

16)

	1.0	1.2
1.3		

MDF = 3.0

(17)

1.2		
	1.5	2.1

MDF = 4.5

(18)

		1.8
	1.6	2.0
		1.0

MDF = 4.8

In these Decimal Fraction Magic Squares one of the numbers is incorrect. Find the incorrect number, correct it and then complete the Decimal Fraction Magic Square, including finding the Magic Decimal Fraction.

19)

1.0		0.9
0.8	0.6	0.4
		0.5

MDF =

(20)

		1.1
	0.8	0.5
0.5	1.2	0.7

MDF =

(21)

		1.2
0.7	1.1	1.5
1.0		0.9

MDF =

22)

3.1	1.3	1.5
	1.9	3.5
		0.7

MDF =

(23)

2.0		
2.3	1.7	1.1
0.5		1.4

MDF =

(24)

2.2		
1.9	2.1	
2.4	1.9	2.0

MDF =

DECIMAL FRACTION MAGIC SQUARES - ANSWERS

1)

0.7	**0.2**	**0.9**
0.8	0.6	0.4
0.3	**1.0**	0.5

MDF = **1.8**

(2)

0.9	**0.4**	1.1
1.0	0.8	0.6
0.5	**1.2**	0.7

MDF = **2.4**

(3)

1.6	**0.5**	1.2
0.7	1.1	1.5
1.0	**1.7**	**0.6**

MDF = **3.3**

4)

0.2	0.9	0.4
0.7	**0.5**	**0.3**
0.6	0.1	**0.8**

MDF = **1.5**

(5)

0.5	**0.6**	**1.0**
1.2	**0.7**	0.2
0.4	**0.8**	**0.9**

MDF = **2.1**

(6)

0.3	1.7	**0.7**
1.3	**0.9**	**0.5**
1.1	0.1	1.5

MDF = **2.7**

7)

0.3	**0.7**	**0.8**
1.1	0.6	0.1
0.4	**0.5**	0.9

MDF = **1.8**

(8)

0.9	**0.4**	**1.1**
1.0	**0.8**	0.6
0.5	1.2	0.7

MDF = **2.4**

(9)

0.6	**1.4**	0.6
0.9	0.9	0.8
1.1	**0.3**	**1.2**

MDF = **2.6**

10)

1.3	0.2	**1.4**
1.1	**1.0**	**0.8**
0.5	**1.7**	**0.7**

MDF = **2.9**

(11)

1.1	**1.0**	**1.5**
1.6	1.2	0.8
0.9	**1.4**	1.3

MDF = **3.6**

(12)

0.8	**1.3**	1.2
1.5	1.1	**0.7**
1.0	**0.9**	1.4

MDF = **3.3**

13)

0.9	**1.9**	1.7
2.3	**1.5**	**0.7**
1.3	**1.1**	2.1

MDF = 4.5

(14)

1.7	**1.0**	**1.5**
1.2	**1.4**	**1.6**
1.3	1.8	1.1

MDF = 4.2

(15)

1.1	**2.1**	**0.7**
0.9	1.3	**1.7**
1.9	**0.5**	**1.5**

MDF = 3.9

16)

0.9	**1.4**	**0.7**
0.8	1.0	1.2
1.3	**0.6**	**1.1**

MDF = 3.0

(17)

1.2	**2.7**	**0.6**
0.9	1.5	2.1
2.4	**0.3**	**1.8**

MDF = 4.5

(18)

2.2	**0.8**	1.8
1.2	1.6	2.0
1.4	**2.4**	1.0

MDF = 3.8

19)

0.7	**0.2**	0.9
0.8	0.6	0.4
0.3	**1.0**	0.5

MDF = **1.8**

(20)

0.9	**0.4**	1.1
1.0	0.8	0.6
0.5	1.2	0.7

MDF = **2.4**

(21)

1.6	**0.5**	1.2
0.7	1.1	1.5
1.0	**1.7**	0.6

MDF = **3.3**

22)

3.1	1.1	1.5
0.3	1.9	3.5
2.3	**2.7**	0.7

MDF = **5.7**

(23)

2.0	**0.5**	**2.6**
2.3	1.7	1.1
0.8	**2.9**	1.4

MDF = **5.1**

(24)

2.2	**2.3**	**1.8**
1.7	2.1	**2.5**
2.4	1.9	2.0

MDF = **6.3**