

# MAGIC SQUARES

**TARGET** To solve number problems involving mental addition and subtraction.

In a magic square the sum of each row, column and diagonal is the same.

20	11	17
13	16	19
15	21	12

*Example*

Row  $13 + 16 + 19 = 48$   
 Column  $17 + 19 + 12 = 48$   
 Diagonal  $15 + 16 + 17 = 48$

Copy and complete the following magic squares.

**A**

1

		11
		2
	10	8

2

2	9	16
		4

3

		6
	12	
18		10

4

		8
15	10	23

**B**

1

21		
	20	
	16	19

2

9		
24		12
21		

3

19	17	33
37		

4

		28
	25	
22		18

**C**

1

3		-1
	0	
		-3

2

-3		
4	-1	0

3

	0	5
		-2
		3

4

-2		
9	1	-7

Answers – magic squares

4 2051      8 15 322      12 1633      16 47

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**A**

1

6	4	11
12	7	2
3	10	8

3

14	16	6
4	12	20
18	8	10

2

14	6	7
2	9	16
11	12	4

4

9	22	17
24	16	8
15	10	23

**B**

1

21	24	15
14	20	26
25	16	19

3

19	17	33
37	23	9
13	29	27

2

9	30	15
24	18	12
21	6	27

4

32	15	28
21	25	29
22	35	18

**C**

1

3	-2	-1
-4	0	4
1	2	-3

3

1	0	5
6	2	-2
-1	4	3

2

2	3	-2
-3	1	5
4	-1	0

4

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

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**A**

1

27
15 12
6 9 3

3

35
13 22
5 8 14

5

26
15

2

25
14 11
10 4 7

4

37
16 21
4 12 9

6

30
23