

## Magnets with manipulatives II – solutions

**+ 2 1 2 1 1 3**

3	-	+	-	+	-	+	3
1	x	x	+	-	x	x	1
2	+	-	x	x	-	+	2
2	x	x	+	-	+	-	2
2	+	-	x	x	-	+	2

1 2 1 2 3 1 -

**+ 3 1 1 2 1 1**

3	+	-	+	-	+	-	3
2	-	+	-	+	x	x	2
2	+	-	x	x	-	+	2
1	x	x	x	+	x	x	0
1	+	-	x	-	x	x	2

1 3 1 2 1 1 -

**+ 1 1 1 2 2 2**

2	x	-	+	-	+	-	3
2	x	x	x	+	-	+	1
2	-	+	x	-	+	x	2
1	+	x	x	x	x	x	0
2	-	x	-	+	-	+	3

2 1 1 2 2 1 -

**+ 1 2 2 2 1 1**

2	-	+	-	+	x	x	2
1	+	-	x	x	-	x	2
2	x	x	+	-	+	x	1
3	x	+	-	+	-	+	2
1	x	-	+	-	x	x	2

1 2 2 2 2 0 -

**+ 2 1 1 1 3 1**

1	x	x	-	x	+	-	2
2	-	x	+	x	-	+	2
2	+	x	x	x	+	-	1
2	-	+	-	+	x	x	2
2	+	-	x	x	+	-	2

2 1 2 0 1 3 -

**+ 2 2 2 2 2 1**

2	-	+	-	+	-	x	3
2	+	-	+	x	x	x	1
1	x	x	x	-	+	-	2
3	x	+	-	+	-	+	2
3	+	-	+	-	+	-	3

1 2 2 2 2 2 -

**+ 2 1 1 2 1 2**

3	-	+	-	+	-	+	3
1	+	x	x	x	x	x	0
1	-	x	x	-	+	x	2
2	x	x	-	+	-	+	2
2	+	-	+	x	x	-	2

2 1 2 1 2 1 -

**+ 1 2 1 2 2 1**

3	x	+	-	+	-	+	2
1	x	-	x	-	+	-	3
1	-	+	x	x	x	x	1
2	+	x	x	+	-	x	1
2	x	x	+	-	+	-	2

1 1 1 2 2 2 -