

Name \_\_\_\_\_ ANSWER KEY

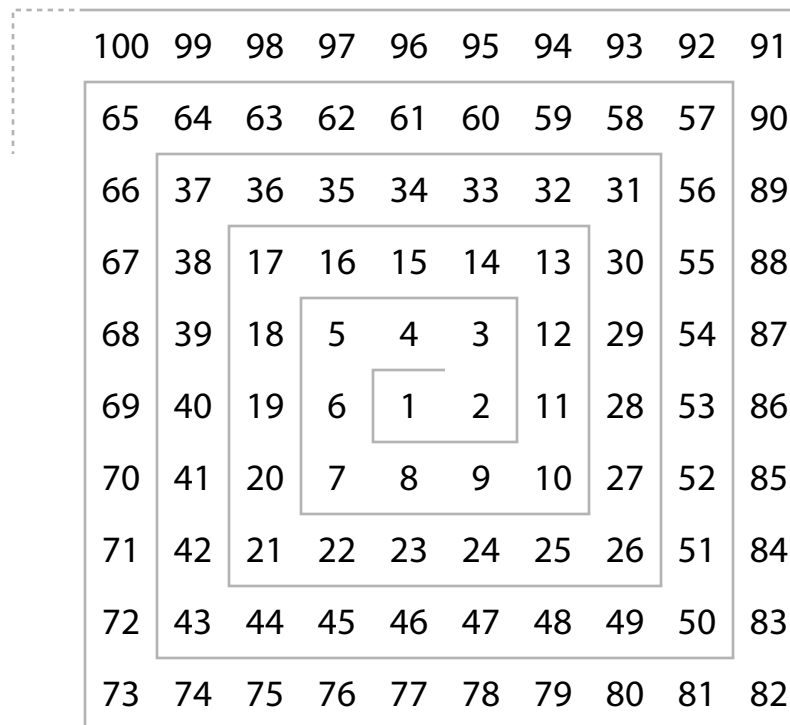
School Team \_\_\_\_\_

Event 5: Team Problems (with calculators)

7th/8th grade Math Meet '08

Problem 1: Spiral patterns

Starting in the middle, we've wrapped the counting numbers around in a spiral that can continue forever.

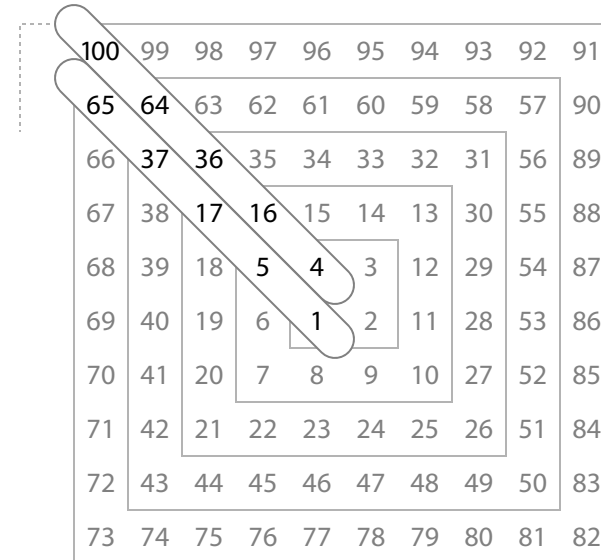
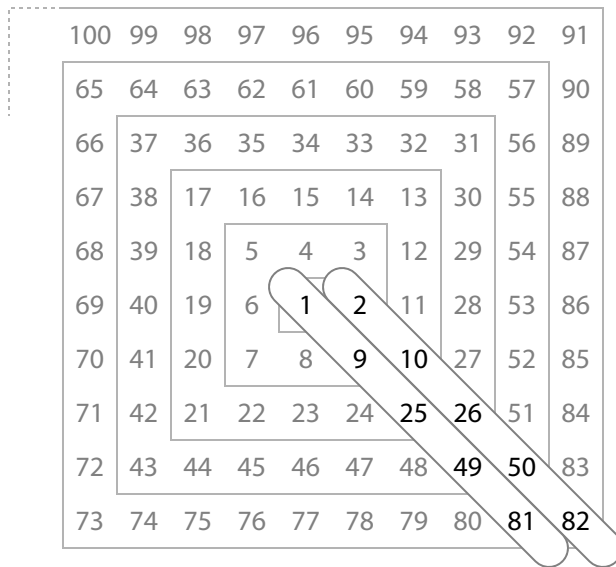


In the questions on the following pages, sets of numbers along diagonals in the spiral have been highlighted. Following the pattern, give the appropriate terms.

Event 5: Team Problems (with calculators)

7th/8th grade Math Meet '08

Problem 1: Spiral patterns (1 pt. each blank)



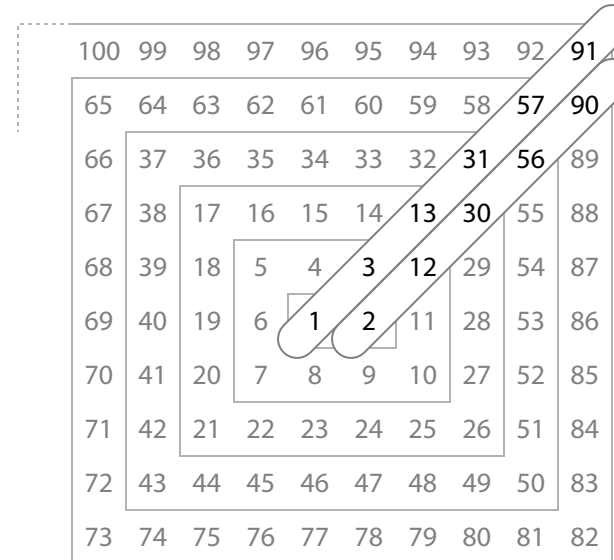
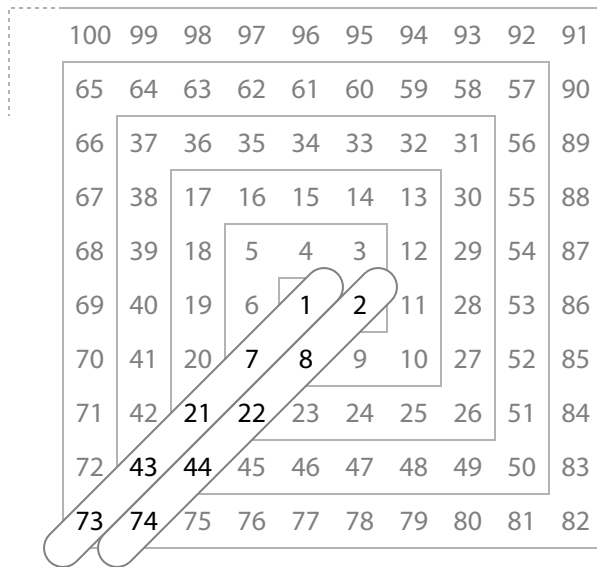
	1st term	2nd term	3rd term	4th term	5th term	10th term	20th term
1)	1	9	25	49	81	<u>361</u>	<u>1521</u>
2)	2	10	26	50	82	<u>362</u>	<u>1522</u>

	1st term	2nd term	3rd term	4th term	5th term	10th term	20th term
3)	4	16	36	64	100	<u>400</u>	<u>1600</u>
4)	1	5	17	37	65	<u>325</u>	<u>1445</u>

Event 5: Team Problems (with calculators)

7th/8th grade Math Meet '08

Problem 1: Spiral patterns (2 pts. each blank)



	1st term	2nd term	3rd term	4th term	5th term	10th term	20th term
1)	1	7	21	43	73	<u>343</u>	<u>1483</u>
2)	2	8	22	44	74	<u>344</u>	<u>1484</u>

	1st term	2nd term	3rd term	4th term	5th term	10th term	20th term
3)	1	3	13	31	57	<u>307</u>	<u>1407</u>
4)	2	12	30	56	90	<u>380</u>	<u>1560</u>