

**WMC SENIOR REGIONAL QUALIFIER 2024
CODEBREAKER FINAL ANSWERS**

PRACTISE QUESTION: RULE: Fibonacci

1	2	3	4	5	6	9	11	14	17
0	1	1	2	3	5	21	55	233	987

QUESTION 1: RULE: Interior angle of a polygon with n sides ($180 - 360/n$)

2	3	4	5	6	15	8	10	12	20
0	60	90	108	120	156	135	144	150	162

QUESTION 2 RULE: Sum of Squares

1	4	3	12	5	10	6	17	12	-3
6	10	4	6	19	11	7	10	21	-5
37	116	25	180	386	221	85	389	585	34

QUESTION 3: RULE: Number of joints/points in the letter

A	E	O	P	F	V	G	Z	W	Q
3	3	0	2	2	1	2	2	3	1

QUESTION 4: RULE: Tetrahedral Numbers

1	2	3	4	5	6	9	11	15	20
1	4	10	20	35	56	165	286	680	1540

QUESTION 5: RULE: GCD of Row 1&2 + 1

2	8	14	15	60	56	36	78	98	51
4	12	42	21	135	72	72	65	42	85
3	5	15	4	16	9	37	14	15	18

QUESTION 6: RULE: $A+2B+3C+4D$

1	11	15	9	29	123	423	1000	1278	9999
1	3	11	9	20	14	17	1	58	90