DETECTIVE CIPHER

NAME: _____ DATE: _____

Solve the math problems, find numbers in the code, and reveal the secret message!

CASE 06 **The Case of the Lost Christmas Star**

The star on top of the Christmas tree is gone! Solve the math problems to help Detective Zoe find it!

DETECTIVE'S CIPHER CODE (Calculation result reveals letter):

7	9	10	11	12	13	14	15	18	21	22	23	24	25
N	T	D	R	G	W	A	E	U	I	H	K	S	O

PART 1: THE SECRET QUESTION

10+3	16+6	8+7	6+5	18-3	6+4	15+6	18-8	16-7	15+7	7+8	17+7	6+3	10+4	5+6

4+8	17+8	?

PART 2: THE DETECTIVE'S ANSWER

4+5	13+9	11+4	16+7	16+5	18-9	12-3	9+6	12-5	14+8	14+7	5+5	12+9	5+4

12+6	15-8	4+6	20-5	20-9	17-8	17+5	10+5	19-10	8+3	19-4	12+3	!

☐ All math calculations verified ☐ Detective case successfully solved! CASE SOLVED ✓

SOLUTION: DETECTIVE CIPHER

Answer key for easy checking and verification

NAME: _____ **DATE:** _____

CASE 06 **The Case of the Lost Christmas Star**

The star on top of the Christmas tree is gone! Solve the math problems to help Detective Zoe find it!

DETECTIVE'S CIPHER CODE (Calculation result reveals letter):

7	9	10	11	12	13	14	15	18	21	22	23	24	25
N	T	D	R	G	W	A	E	U	I	H	K	S	O

PART 1: THE SECRET QUESTION

10+3	16+6	8+7	6+5	18-3	6+4	15+6	18-8	16-7	15+7	7+8	17+7	6+3	10+4	5+6	4+8	17+8	?
13	22	15	11	15	10	21	10	9	22	15	24	9	14	11	12	25	
W	H	E	R	E	D	I	D	T	H	E	S	T	A	R	G	O	

PART 2: THE DETECTIVE'S ANSWER

4+5	13+9	11+4	16+7	16+5	18-9	12-3	9+6	12-5	14+8	14+7	5+5	12+9	5+4	12+6	15-8	4+6	20-5	20-9	17-8	17+5	10+5	19-10	8+3	19-4	12+3	!
9	22	15	23	21	9	9	15	7	22	21	10	21	9	18	7	10	15	11	9	22	15	9	11	15	15	
T	H	E	K	I	T	T	E	N	H	I	D	I	T	U	N	D	E	R	T	H	E	T	R	E	E	

✓ All math calculations verified ✓ Detective case successfully solved! **CASE SOLVED ✓**