

## VARIABLE PUZZLES - B

## ANSWERS

EACH PROBLEM HAS 5 LETTERS WHICH CAN EQUAL A COUNTING NUMBER UP TO 5, BUT NO LETTERS CAN EQUAL THE SAME NUMBER. IN OTHER WORDS, IF  $D = 3$  THEN NONE OF THE OTHER LETTERS CAN EQUAL 3. YOUR GOAL IS TO USE THE EQUATIONS AND GRIDS TO HELP FIGURE OUT WHAT EACH LETTER EQUALS.

THE EQUATIONS HAVE CLUES ON WHAT EACH VARIABLE (LETTER) EQUALS. USE THE GRID TO HELP FIGURE OUT WHAT EACH ONE REPRESENTS. USE "N" FOR NO AND "Y" FOR YES.

### PROBLEM #1

- $B - E = 1$
- $A + B + C = B + B$
- $D + A = 3$

	1	2	3	4	5
A	N	Y	N	N	N
B	N	N	N	N	Y
C	N	N	Y	N	N
D	Y	N	N	N	N
E	N	N	N	Y	N

### PROBLEM #2

- $D + A = C$
- $B + A = 6$
- $D + C + A = 8$

	1	2	3	4	5
A	Y	N	N	N	N
B	N	N	N	N	Y
C	N	N	N	Y	N
D	N	N	Y	N	N
E	N	Y	N	N	N

### PROBLEM #3

- $E = A - D$
- $B + D = 3$
- $E + E + D = 7$

	1	2	3	4	5
A	N	N	N	Y	N
B	N	Y	N	N	N
C	N	N	N	N	Y
D	Y	N	N	N	N
E	N	N	Y	N	N