

Pseudocode Puzzle: Trace Tables

Name: _____ Date: _____

Instructions: For each code sample, trace the execution line by line. Fill in the trace table.

Problem 1: Simple Loop

```
SET count = 0
REPEAT 5 times:
    ADD 1 to count
END REPEAT
DISPLAY count
```

After Line	count	Output
1		
2 (1st time)		
2 (2nd time)		
2 (3rd time)		
2 (4th time)		
2 (5th time)		
3		

What does this code do? _____

Problem 2: Conditional Statement

```
SET number = 8
IF number > 10:
    DISPLAY "large"
ELSE:
    DISPLAY "small"
END IF
```

After Line	number	Output
1		
2 (condition)		
3 or 4		

What does this code do? _____

Problem 3: Mystery Operation

```

SET n = 4
SET result = 1
REPEAT n times:
    MULTIPLY result by 2
END REPEAT
DISPLAY result

```

After Line	n	result	Output
1			
2			
3 (1st time)			
3 (2nd time)			
3 (3rd time)			
3 (4th time)			
4			

What does this code do? _____

Exit Ticket

```

SET x = 3
SET y = 7
SET answer = x * y
DISPLAY answer

```

After Line	x	y	answer	Output
1				
2				
3				
4				

What does this code do? _____