

Find the Secret Number— Developing a Search Strategy

Name: _____

Open **Find the Secret Number--Developing a Search Strategy.gsp** and go to page “0–10.” Follow these steps to find the secret number.

- Write the clue in the “Clue” column.
- On the number line, cross out the suspects you have eliminated.
- Drag the triangles to leave out the eliminated suspects.
- Write the suspects that are left in the “Suspects” column.

PAGE 0 – 10

Do this example with your teacher.



	Clue	Suspects
0	—	0 – 10
1		
2		
3		

4		
5		
6		
7		
8		

Use this table to keep track of your own game on page “0–10.”

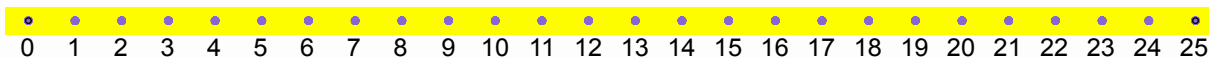


	Clue	Suspects
0	—	0 – 10
1		
2		
3		

4		
5		
6		
7		
8		

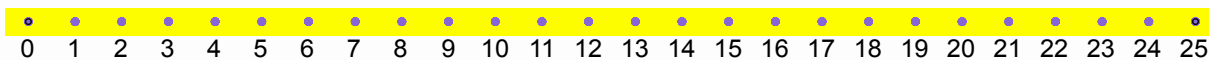
PAGE 0 – 25

Use these tables to keep track of your game for page “0–25.”



	Clue	Suspects
0	—	0 – 25
1		
2		
3		
4		
5		
6		
7		

8		
9		
10		
11		
12		
13		
14		
15		
16		



	Clue	Suspects
0	—	0 – 25
1		
2		
3		
4		
5		
6		
7		

8		
9		
10		
11		
12		
13		
14		
15		
16		

Find the Secret Number—Developing a Search Strategy (continued)

Use the other pages to practice your skills.

One round is five games. Play a round, keep track of your scores, and add them up.

Write the code for your rank below your total.

Total Score	Your Rank	Code
Total > 49	Apprentice	A
Total < 50	Journeyman	J
Total < 40	Mathematician	M
Total < 35	Master Mathematician	MM

Play as many rounds as at each level as you need to. When you become a Mathematician or Master Mathematician at one level, go to the next level.

LEVEL 1: PAGE 0 – 50.

Game	Score	Game	Score	Game	Score	Game	Score	Game	Score
1		1		1		1		1	
2		2		2		2		2	
3		3		3		3		3	
4		4		4		4		4	
5		5		5		5		5	
Total		Total		Total		Total		Total	
Level 1 Rank		Level 1 Rank		Level 1 Rank		Level 1 Rank		Level 1 Rank	

LEVEL 2: PAGE 0 – 100

Game	Score	Game	Score	Game	Score	Game	Score	Game	Score
1		1		1		1		1	
2		2		2		2		2	
3		3		3		3		3	
4		4		4		4		4	
5		5		5		5		5	
Total		Total		Total		Total		Total	
Level 2 Rank		Level 2 Rank		Level 2 Rank		Level 2 Rank		Level 2 Rank	

LEVEL 2: PAGE 0 – 200

Game	Score	Game	Score	Game	Score	Game	Score	Game	Score
1		1		1		1		1	
2		2		2		2		2	
3		3		3		3		3	
4		4		4		4		4	
5		5		5		5		5	
Total		Total		Total		Total		Total	
Level 3 Rank		Level 3 Rank		Level 3 Rank		Level 3 Rank		Level 3 Rank	