

Star Pattern

Ques 1:

n = 5

```
*   *   *   *   *  
*   *   *   *   *  
*   *   *   *   *  
*   *   *   *   *  
*   *   *   *   *
```

Ques 2:

n = 5

```
*  
*   *  
*   *   *  
*   *   *   *  
*   *   *   *   *
```

Ques 3:

n = 5

```
*   *   *   *   *  
*   *   *   *  
*   *   *  
*   *  
*
```

Ques 4:

n = 5

```

                *
            *   *
        *   *   *
    *   *   *   *
*   *   *   *   *
```

Ques 5:

n = 5

```

*   *   *   *   *
    *   *   *   *
        *   *   *
            *   *
                *   *
                    *
```

Ques 6:

n = 5

```

*   *   *   *   *
        *   *   *   *
            *   *   *
                *   *   *
                    *   *
                        *   *
                            *
                                *
```

Ques 7:

n = 5

```
*   *   *   *   *
*           *
*           *
*           *
*   *   *   *   *
```

Ques 8:

n = 5

```
*           *
    *       *
      *
    *       *
*           *
```

Ques 9:

n = 5

```
           *
        *   *   *
      *   *   *   *
    *   *   *   *   *
*   *   *   *   *   *   *
```

Ques 10:

n = 5

```
*   *   *   *   *   *   *   *   *
  *   *   *   *   *   *   *
    *   *   *   *   *
      *   *   *
        *   *
```

Ques 11:

n = 5

```
      *
     *
    *
   *
  *
 *
*   *   *   *   *
```

Ques 12:

n = 5

```
      *
     *
    *
   *
  *
 *
*   *   *   *   *
  !   !   !   !   !
    !   !   !   !
      !   !   !
        !   !
          !
```

Ques 13:

n = 5

```
*
*  *
*  *  *
*  *  *  *
*  *  *  *  *
*  *  *  *
*  *  *
*  *
*
```

Ques 14:

n = 5

```

      *
    *  *
  *  *  *
*  *  *  *
  *  *  *  *
    *  *  *
      *  *
    *  *
```

Ques 15:

$$n = 5$$

A 10x10 grid of asterisks (*) forming a diamond shape. The pattern is symmetric about the center. The top row has 1 asterisk at column 5. The second row has 2 asterisks at columns 4 and 6. The third row has 3 asterisks at columns 3, 5, and 7. The fourth row has 4 asterisks at columns 2, 4, 6, and 8. The fifth row has 5 asterisks at columns 1, 3, 5, 7, and 9. The sixth row has 4 asterisks at columns 2, 4, 6, and 8. The seventh row has 3 asterisks at columns 3, 5, and 7. The eighth row has 2 asterisks at columns 4 and 6. The ninth row has 1 asterisk at column 5. The tenth row has 0 asterisks.

Ques 16:

$$n = 5$$

Ques 17:

$$n = 7$$

```

*   *   *       *   *   *
*   *           *   *
*               *
*
*               *
*   *           *   *
*   *   *       *   *   *

```

Ques 18:
n = 7

```

          *
        * * *
      * * * * *
    * * * * * *
  * * * * * * *
    * * * * *
      * * *
        *
          *

```

Ques 19:
n = 7

```

*   *   *   *   *   *   *
*   *   *       *   *   *
*   *           *   *
*               *
*               *
*   *           *   *
*   *   *       *   *   *
*   *   *   *   *   *   *

```

Ques 20:

n = 7

```

      *
    *   *
  *       *
*           *
  *       *
    *   *
      *

```

Ques 21:

n = 5

```

*                               *
*   *                           *   *
*   *   *                       *   *   *
*   *   *   *                   *   *   *   *
*   *   *   *   *               *   *   *   *   *

```

Ques 22:

n = 5

```

*   *   *   *   *   *   *   *   *
*   *   *   *       *   *   *   *
*   *   *           *   *   *
*   *               *   *
*                   *

```


Number Pattern

Ques 23:

n = 5

```

      1
    1 1 1
  1 1 1 1 1
1 1 1 1 1 1 1 1
```

Ques 24:

n = 5

```

      1
    2 2 2
  3 3 3 3
4 4 4 4 4
5 5 5 5 5 5 5
```

Ques 25:

n = 5

```

      1
    2 3 4
  5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25
```

Ques 26:

$n = 5$

				1				
			1	2	3			
		1	2	3	4	5		
	1	2	3	4	5	6	7	
1	2	3	4	5	6	7	8	9

Ques 27:

$n = 5$

				1				
			1	2	1			
		1	2	3	2	1		
	1	2	3	4	3	2	1	
1	2	3	4	5	4	3	2	1

Ques 28:

$n = 5$

				1				
			2	3	2			
		3	4	5	4	3		
	4	5	6	7	6	5	4	
5	6	7	8	9	8	7	6	5

Ques 29:

n = 5

				1				
			2	0	2			
		3	0	0	0	3		
	4	0	0	0	0	0	4	
5	0	0	0	0	0	0	0	5

Ques 30:

n = 5

5	4	3	2	1
5	4	3	2	1
5	4	3	2	1
5	4	3	2	1
5	4	3	2	1

Ques 31:

n = 5

5	4	3	2	*
5	4	3	*	1
5	4	*	2	1
5	*	3	2	1
*	4	3	2	1

Ques 32:

n = 5

```
1
2  *  2
3  *  3  *  3
4  *  4  *  4  *  4
5  *  5  *  5  *  5  *  5
4  *  4  *  4  *  4
3  *  3  *  3
2  *  2
1
```

Ques 33:

n = 10

```
          0
        9 0 9
      8 9 0 9 8
    7 8 9 0 9 8 7
  6 7 8 9 0 9 8 7 6
5 6 7 8 9 0 9 8 7 6 5
4 5 6 7 8 9 0 9 8 7 6 5 4
3 4 5 6 7 8 9 0 9 8 7 6 5 4 3
2 3 4 5 6 7 8 9 0 9 8 7 6 5 4 3 2
1 2 3 4 5 6 7 8 9 0 9 8 7 6 5 4 3 2 1
```