Tree Lab

1. 16 34 35 38 39 41 44 45 55 63 64 65 72
2. 45 38 34 16 35 41 39 44 65 63 55 64 72
3. 16 35 34 39 49 41 38 55 64 63 72 65 45
4. Height of tree = 3
5. Level 2 nodes = 38, 65

2.

a. (left, root , right)   
48 – 7 % 2 / 24 \* 18 – 5 \* 2 + 12  
b. (left, right , root)  
48 7 2 % - 24 / 18 5 2 \* - 12 + \*  
c)  
7 % 2 = 1  
48 – 1 = 47  
5 \* 2 = 10  
18 – 10 = 8  
47/24 = 1  
8+12 = 20  
\\*20=20  
d)  
7 % 2 = 1  
5 \* 2 = 10  
  
48 – 1 = 47  
18-10 = 8  
  
47/24 = 1.9  
8+12=20  
1.9\*20=38

38

3)  
a) null

b)

|  |  |
| --- | --- |
| 0 | 14 |
| 1 | 73 |
| 2 | 21 |
| 3 | 7 |
| 4 |  |
| 5 | 19 |
| 6 | 6 |
| 7 |  |
| 8 | 51 |
| 9 |  |
| 10 |  |
| 11 |  |
| 12 |  |
| 13 |  |
| 14 | 45 |

4)

35



71

20



63

52

40



17

25

7

45