1_Subnetting_/24

The following IP_address / mask combination is available to the administrator [192.168.10.127/24].

1. Specify the type of the address [network address | usable address | broadcast address].

2. Based on the previous task, write down the network and broadcast address of the network.

   Network:_____ Broadcast:_____

3. The network divide according to the following specifications regarding the number of usable addresses:

   L1: 122, L2: 52, L3: 20, L4: 13, L5: 5, L6: 192.168.10.64/30

4. Write down the following information about L4. subnet.
   a. Network address:_____
   b. First usable address:_____
   c. Last usable address:_____
   d. Broadcast address:_____
   e. Subnet mask:_____
   f. Number of addresses:_____

2_Subnetting_/26

The following IP_address / mask combination is available to the administrator [9.112.47.192/26].

1. Specify the type of the address [network address | usable address | broadcast address].

2. Based on the previous task, write down the network and broadcast address of the network.

   Network:_____ Broadcast:_____

3. The network (task 2) divide according to the following specifications regarding the number of usable addresses:

   L1: 14, L2: 22, L3: 5, L4: 9.112.47.244/30

4. Write down the following information about L3. subnet.
   a. Network address:_____
   b. First usable address:_____
   c. Last usable address:_____
   d. Broadcast address:_____
   e. Subnet mask:_____
   f. Number of addresses:_____

3_Subnetting_/22

The following IP_address / mask combination is available to the administrator [47.214.119.0/22].

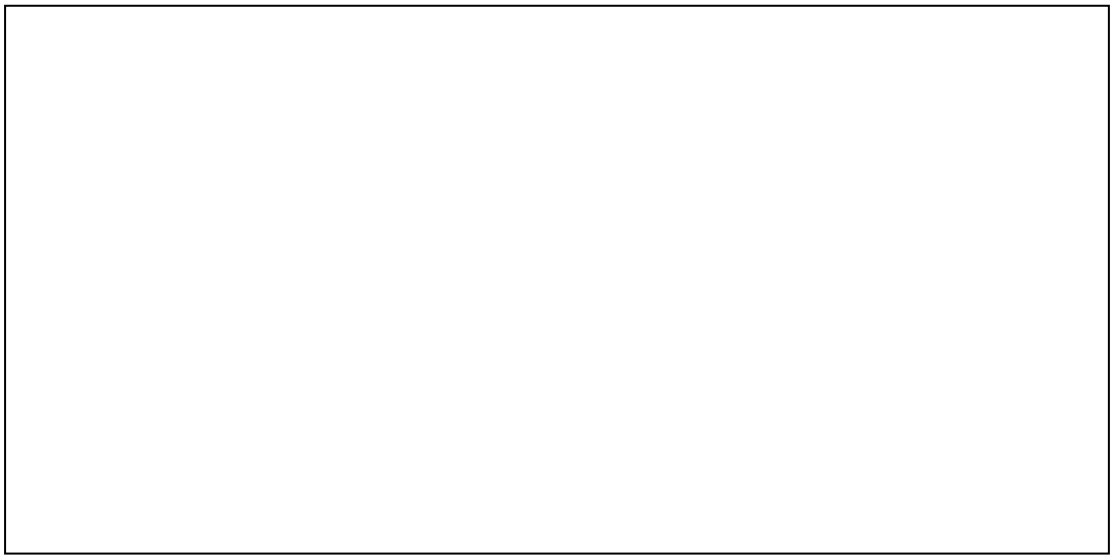
1. Specify the type of the address [network address | usable address | broadcast address].

2. Based on the previous task, write down the network and broadcast address of the network.

   Network:_____ Broadcast:_____

3. The network (task 2) divide according to the following specifications regarding the number of usable addresses:

   L1: 98, L2: 222, L3: 471, L4: 47.214.119.64/26



4. Write down the following information about L1. subnet.
   a. Network address:_____
   b. First usable address:_____
   c. Last usable address:_____
   d. Broadcast address:_____
   e. Subnet mask:_____
   f. Number of addresses:_____

4_Subnetting_/19

The following IP_address / mask combination is available to the administrator [147.232.76.255/19].

1. Specify the type of the address [network address | usable address | broadcast address].
2. Based on the previous task, write down the network and broadcast address of the network.

   Network:_____ Broadcast:_____

3. The network divide into 4 equal parts. Write down the network addresses of the created subnets.

   _____ _____ _____ _____

4. Divide the second of the created subnets (task 3) into 4 equally large parts and write down their network addresses.

   _____ _____ _____ _____

5. The second subnet (created in task 4) divide according to the following specifications regarding the number of usable addresses:

   L1: 120, L2: 200, L3: 62, L4: 22, L5: 12, L6: 147.232.74.96/28

6. Write down the following information about L3. subnet.
   a. Network address:_____
   b. First usable address:_____
   c. Last usable address:_____
   d. Broadcast address:_____
   e. Subnet mask:_____
   f. Number of addresses:_____

5_Subnetting_/18

The following IP_address / mask combination is available to the administrator [147.232.171.255/18].

1. Specify the type of the address [network address | usable address | broadcast address].
2. Based on the previous task, write down the network and broadcast address of the network.

   Network:_____ Broadcast:_____

3. The network divide into 4 equal parts. Write down the network addresses of the created subnets.

   _____ _____ _____ _____

4. Divide the third of the created subnets (task 3) into 4 equally large parts and write down their network addresses.

   _____ _____ _____ _____

5. The second subnet (created in task 4) divide according to the following specifications regarding the number of usable addresses:

   L1: 220, L2: 315, L3: 64, L4: 58, L5: 21, L6: 147.232.165.176/28

6. Write down the following information about L3. subnet.
   a. Network address:_____
   b. First usable address:_____
   c. Last usable address:_____
   d. Broadcast address:_____
   e. Subnet mask:_____
   f. Number of addresses:_____

6_Subnetting_/5

The following IP_address / mask combination is available to the administrator [14.255.255.255/5].

1. Specify the type of the address [network address | usable address | broadcast address].
2. Based on the previous task, write down the network and broadcast address of the network.

   Network:_____ Broadcast:_____

3. The network divide into 20 equal parts. Write down the network addresses of the first six created subnets.

   _____ _____ _____ _____ _____ _____

4. Divide the sixth of the created subnets (task 3) into 15 equally large parts and write down first four network addresses.

   _____ _____ _____ _____

5. Write down the network and broadcast address of the third created network (task 4). Also write down the number of usable addresses (formula how to compute).
   Network: _____ Broadcast: _____ Formula: _____

6. Network created in previous task 5 divide into 33 equally large parts and write down network address and subnet mask of the third network.
   Network: _____ Mask: _____

7. The network (created in task 6) divide according to the following specifications regarding the number of usable addresses:
   L1: 800, L2: 245, L3: 2000, L4: 50, L5: 98, L6: 500, L7: 27, L8: 5, L9: 13, L10: 9.72.36.4/30

8. Write down the following information about L4. subnet.
   a. Network address:_____
   b. First usable address:_____
   c. Last usable address:_____
   d. Broadcast address:_____
   e. Subnet mask:_____
   f. Number of addresses:_____