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below are the practice questions based on different subnetting classes i have especially designed these questions to help prepare for subnetting in the best possible way practicing these questions will improve your subnetting skills so begin now a wide range of subnetting practice questions designed to help you ace the subnetting portion of the ccna or any other network exam free subnetting tools subnetting practice to practice subnetting click on the new problem button below solve the five attributes for the given target ip and cidr click check to check if your answer was correct click show to view correct answers type you may also want to look at our ipv6 subnetting practice questions you can verify your answers with our subnet calculator or vlsm calculator download our subnet cheat sheet for all the essential information you need to quickly perform subnet calculations in your head yes both would work mask 255 255 0 0 has 8 bits for the subnet and 16 bits for the host 8 bits would accommodate 2 8 256 subnets 16 bits would accommodate 2 16 over 64000 hosts mask 255 255 255 0 has 16 bits for the subnet and 8 bits of the host have possible 2 8 2 hosts 254 which is enough 2 subnetting direction subnetting always flows in a single direction left to right without skipping any bit this simple rule gives us the exact location of subnetting bits in an address space let s take an example a class c network is subnetted in 4 subnets find the number of host bits used in subnetting and their location in the address answer 172 30 223 0 reveal answer questions are configured for internal ip address ranges only subnet zero is allowed as per cisco standard practice if you have learnt subnetting from organisations other than cisco your answers may differ by up to two subnets per network see explanation there are three types of subnetting questions you may be asked in an exam or interview calculate the number of networks and host addresses in a given ip subnet find the network id and broadcast id of a given ip subnet identify the subnet mask of a given ip subnet calculating networks and host addresses practice question answer let s look at how we re going to figure out the answer to the question we re going to do the second part first because it s easier and more logical to answer the question that way the second part of the question was what is the subnet mask 26 in dotted decimal there are basically three types of subnetting questions that will be asked in our practice section on any exam or you need to answer in real life we will go over these question types and show you how to use the cheat sheet to find the answer very quickly subnetting practice questions tutorials and a competitive game to help you master ip networking additionally we have hundreds of free ccna practice questions with summaries and answer feedback free subnetting tools answer the subnet is 172 24 102 192 calculate the broadcast address question what is the broadcast of 172 30 233 0 255 255 255 128 calculation our answer is calculated via the following steps the magic number is 128 x x x 128 256 how 128 s fit into x x x 0 0 next subnet is 172 30 233 128 range of subnet is 172 30 233 0 172 30 233 subnetting org free subnetting questions and answers randomly generated online ipv4 subnetting random question generator v1 6 question how many subnets and hosts per subnet can you get from the network 172 31 0 0 19 answer 8 subnets and 8190 hosts per subnet reveal answer learn to subnet cisco training what is the range of assignable ip addresses for a subnet containing an ip address of 172 16 1 10 19 a 172 16 0 1 172 16 31 254 b 172 16 0 1 172 16 63 254 c 172 16 0 0 172 16 31 255 d 172 16 0 1 172 16 31 255 e 172 16 0 0 172 16 63 254 answer a to determine the subnets assignable ip address ranges and directed subnetting is the process of dividing a larger network into smaller sub networks or subnets to improve network organization security and performance this is achieved by borrowing bits from the host part of an ip address and using them to create subnets subnetting examples with answers example 1 simple subnetting given ip address 192 subnetting questions are an essential element of the ccna curriculum as a matter of fact subnetting itself is one of the most important segment that is a part of a cisco certification therefore you need to have a thorough understanding of subnetting before you decide to sit a ccna exam the subnet quiz free subnetting practice questions for your certification exam question a tablet is assigned an ip address of 172 23 239 244 255 255 240 0 what is the network ip address in the same network answer show answer next question cidr versus vlsm special subnets subnetting examples ip subnetting examples example 1 ip subnetting examples example 2 subnetting example 3 subnetting examples example 4 what is subnet 24 subnetting cidr example 26 subnet mask subnet of 27 subnet for 30 ip subnetting step 1 subnet the 192 168 100 0 24 network into the appropriate number of subnets questions a based on the topology how many subnets are needed 5 four for the lans and one for the link between the routers b how many bits must be borrowed to support the number of subnets in the topology table 3 c how many subnets does this create 8 d subnetting divides domains of the broadcast so that traffic is routed efficiently which helps in improving network performance subnetting is used in increasing network security the network can be divided into two parts to divide a network into two parts you need to choose one bit for each subnet from the host id part

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yes both would work mask 255 255 0 0 has 8 bits for the subnet and 16 bits for the host 8 bits would accommodate 2 8 256 subnets 16 bits would accommodate 2 16 over 64000 hosts mask 255 255 255 0 has 16 bits for the subnet and 8 bits of the host have possible 2 8 2 hosts 254 which is enough 2

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subnetting direction subnetting always flows in a single direction left to right without skipping any bit this simple rule gives us the exact location of subnetting bits in an address space let s take an example a class c network is subnetted in 4 subnets find the number of host bits used in subnetting and their location in the address

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there are three types of subnetting questions you may be asked in an exam or interview calculate the number of networks and host addresses in a given ip subnet find the network id and broadcast id of

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practice question answer let s look at how we re going to figure out the answer to the question we re going to do the second part first because it s easier and more logical to answer the question that way the second part of the question was what is the subnet mask 26 in dotted decimal

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answer the subnet is 172 24 102 192 calculate the broadcast address question what is the broadcast of 172 30 233 0 255 255 255 128 calculation our answer is calculated via the following steps the magic number is 128 x x x 128 256 how 128 s fit into x x x 0 0 next subnet is 172 30 233 128 range of subnet is 172 30 233 0 172 30 233

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what is the range of assignable ip addresses for a subnet containing an ip address of 172 16 1 10 19 a 172 16 0 1 172 16 31 254 b 172 16 0 1 172 16 63 254 c 172 16 0 0 172 16 31 255 d 172 16 0 1 172 16 31 255 e 172 16 0 0 172 16 63 254 answer a to determine the subnets assignable ip address ranges and directed

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subnetting is the process of dividing a larger network into smaller sub networks or subnets to improve network organization security and performance this is achieved by borrowing bits from the host part of an ip address and using them to create subnets subnetting examples with answers example 1 simple subnetting given ip address 192

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subnetting questions are an essential element of the ccna curriculum as a matter of fact subnetting itself is one of the most important segment that is a part of a cisco certification therefore you need to have a thorough understanding of subnetting before you decide to sit a ccna exam

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step 1 subnet the 192 168 100 0 24 network into the appropriate number of subnets questions a based on the topology how many subnets are needed 5 four for the lans and one for the link between the routers b how many bits must be borrowed to support the number of subnets in the topology table 3 c how many subnets does this create 8 d

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subnetting divides domains of the broadcast so that traffic is routed efficiently which helps in improving network performance subnetting is used in increasing network security the network can be divided into two parts to divide a network into two parts you need to choose one bit for each subnet from the host id part

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