1: Full text of "subnetting workbook version 2"

Po Polsku: Student's Workbook Student's Workbook: v. 2 v. 2 Paperback - December 31, by A. Burkat (Author).

Host Host Class C Leading bit pattern Robb Jones Special Thanks to Melvin Baker and Jim Dorsch for taking the time to check this workbook for errors, and to everyone who has sent in suggestions to improve the series. Workbooks included in the series: O Default Subnet Masks Write the correct default subnet mask for each of the following addresses: By now you should be able to look at an IP address and tell what class it is. Each independent of the other. This can only be accomplished by using a custom subnet mask. A custom subnet mask borrows bits from the host portion of the address to create a subnetwork address between the network and host portions of an IP address. In this example each range has 14 usable addresses in it. The computer must still AND the I P address against the custom subnet mask to see what the network portion is and which subnetwork it belongs to. In the next set of problems you will determine the necessary information to determine the correct subnet mask for a variety of I P addresses. How to determine the number of subnets and the number of hosts per subnet Two formulas can provide this basic information: For example if you borrow three bits from the host portion of the address use the number of subnets formula to determine the total number of subnets gained by borrowing the three bits. When dealing with the number of hosts per subnet you have to subtract two addresses from the range. The first address in every range is the subnet number. The last address in every range is the broadcast address. These two addresses cannot be assigned to any device in the network which is why you have to subtract two addresses to find the number of usable addresses in each range. For example if two bits are borrowed for the network portion of the address you can easily determine the number of subnets and hosts per subnets using the two formulas. What about that second subnet formula: This is similar to the first and last host addresses in each range of addreses. The first range of addresses is the zero subnet. The subnet number for the zero subnet is also the subnet number for the classful subnet address. The last range of addresses is the broadcast subnet. The broadcast address for the last subnet in the broadcast subnet is the same as the classful broadcast address. Notice that the subnet and broadcast addresses match. If you send a broadcast to The CCNA and CCENT certification exams may have questions which will require you to determine which formula to use, and whehter or not you can use the first and last subnets. Use the chart below to help decide. Use the 2 s formula and use the zero and broadcast ranges if O Custom subnet mask All bits remaining belong to the host portion of the address. SO I I -fe. O Custom subnet mask 25"5". G3 What is the subnet number for the 8th subnet? The binary value of the last bit borrowed is the range. In this problem the range is The first address in each subnet range is the subnet number. The last address in each subnet range is the subnet broadcast address. G4 What is the subnet broadcast address for the 6th subnet? G2 30 Show your work for Problem 2 in the space below. It is possible to borrow one bit to create two subnets. What is the 2nd subnet range? What is the subnet number for the 2nd subnet? What is the subnet broadcast address for the 1st subnet? What are the assignable addresses for the 1st subnet? What is the subnet number for the 13th subnet? What is the subnet broadcast address for the 10th subnet? What are the assignable addresses for the 6th subnet? What is the subnet number for the 5th subnet? What is the subnet broadcast address for the 7th subnet? What are the assignable addresses for the 10th subnet? What is the subnet number for the 4th subnet? What is the subnet broadcast address for the 12th subnet? What is the subnet number for the 6th subnet? What is the subnet broadcast address for the 2nd subnet? What are the assignable addresses for the 9th subnet? What is the subnet broadcast address for the 6th subnet? What are the assignable addresses for the 3rd subnet? What is the subnet number for the 10th subnet? What is the subnet broadcast address for the 4th subnet? What is the subnet broadcast address for the 13th subnet? What are the assignable addresses for the 12th subnet? What is the subnet number for the 7th subnet? What is the subnet broadcast address for the 3rd subnet? What are the assignable addresses for the 5th subnet? What is the subnet number for the 11th subnet? What is the subnet broadcast address for the rd subnet? What are the assignable addresses for the nd subnet? What is the subnet number for the 9th subnet? Circle each subnet on the graphic and answer the questions below. IP address range for Tech Ed G3 IP address range for Science I27 IP address range for Router A ,. If they are not usable

addresses explain why. Start with a square. The whole square is a single subnet comprised of addresses.

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The Student Workbook is designed to encourage critical thinking and aid comprehension through a variety of exercises in each chapter, including: ASE-Type Questions - Test your critical thinking.

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Ranking Salt Solutions by pH In this assignment you will be asked to rank aqueous solutions of acids, bases, and salts in order of increasing pH. This is most easily done by first identifying the strong acids that have the lowest pH, the strong bases that have the highest pH, and the neutral solutions that have a pH near 7.

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