

Complete this worksheet to receive the point.

Instructions. Doing IPv4 subnet calculations has great value in enhancing the understanding of not only the fundamental aspects of networks but also how computers operate. Subnet calculators give you answers, but they don't provide understanding. Use a website such as <https://subnetipv4.com/> to generate 10 random IP addresses and complete this worksheet.

Item	Decimal Notation	1st Octect	2nd Octect	3rd Octect	4th Octect
IPv4	202.229.131.231 /18	1100 1010	1110 0101	1000 0011	1110 0111
Mask	255.255.192.0	1111 1111	1111 1111	1100 0000	0000 0000
Network ID	202.229.128.0	1100 1010	1110 0101	1000 0000	0000 0000
1st Usable Host	202.229.128.1	1100 1010	1110 0101	1000 0000	0000 0001
Broadcast Address	202.229.191.255	1100 1010	1110 0101	1011 1111	1111 1111
Last Usable Host	202.229.191.254	1100 1010	1110 0101	1011 1111	1111 1110

Figure 1 = Example

Problem #1

Item	Decimal Notation	1st Octect	2nd Octect	3rd Octect	4th Octect
IPv4					
Mask					
Network ID					
1st Usable Host					
Broadcast Address					
Last Usable Host					

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Problem #2

Item	Decimal Notation		1st Octect	2nd Octect	3rd Octect	4th Octect
IPv4						
Mask						
Network ID						
1st Usable Host						
Broadcast Address						
Last Usable Host						

Problem #3

Item	Decimal Notation		1st Octect	2nd Octect	3rd Octect	4th Octect
IPv4						
Mask						
Network ID						
1st Usable Host						
Broadcast Address						
Last Usable Host						

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Problem #4

Item	Decimal Notation		1st Octect	2nd Octect	3rd Octect	4th Octect
IPv4						
Mask						
Network ID						
1st Usable Host						
Broadcast Address						
Last Usable Host						

Problem #5

Item	Decimal Notation		1st Octect	2nd Octect	3rd Octect	4th Octect
IPv4						
Mask						
Network ID						
1st Usable Host						
Broadcast Address						
Last Usable Host						

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Problem #6

Item	Decimal Notation	1st Octect	2nd Octect	3rd Octect	4th Octect
IPv4					
Mask					
Network ID					
1st Usable Host					
Broadcast Address					
Last Usable Host					

Problem #7

Item	Decimal Notation	1st Octect	2nd Octect	3rd Octect	4th Octect
IPv4					
Mask					
Network ID					
1st Usable Host					
Broadcast Address					
Last Usable Host					

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Problem #8

Item	Decimal Notation	1st Octect	2nd Octect	3rd Octect	4th Octect
IPv4					
Mask					
Network ID					
1st Usable Host					
Broadcast Address					
Last Usable Host					

Problem #9

Item	Decimal Notation	1st Octect	2nd Octect	3rd Octect	4th Octect
IPv4					
Mask					
Network ID					
1st Usable Host					
Broadcast Address					
Last Usable Host					

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Problem #10

Item	Decimal Notation		1st Octect	2nd Octect	3rd Octect	4th Octect
IPv4						
Mask						
Network ID						
1st Usable Host						
Broadcast Address						
Last Usable Host						