Each IP octet is an 8-bit number, so it can't have a value larger than 255.

1.Question 1

Please select all of the valid IP addresses. Check all that apply.

**1 / 1 point**



192.168.1.1

**Correct**

Great work! 192.168.1.1 is a valid IP address.



8.8.8.8

**Correct**

Nice job! 8.8.8.8 is a valid IP address.



123.456.123.456



257.70.312.49

2.Question 2

How many IP addresses does a class C network have?



1 address



254 addresses



16,777,216 addresses



65,536 addresses

**Ans :** A Class C network has 8 bits for the host ID, which translates to 256 addresses.

2.Question 2

What happens to the TTL field of an IP datagram every time it reaches a router?



The TTL field is reset to zero.



The TTL field is decremented by one.



The TTL field is incremented by one.



The TTL field is used for a cyclical redundancy check.

**Correct**

You got it! At every router hop, the TTL field is decremented by one until it reaches zero, causing the datagram to be discarded.

At every router hop, the TTL field is decremented by one until it reaches zero, causing the datagram to be discarded.

Ans : 2