

Next Hdr	Length	Description
0	var	Hop-by-Hop Options. A set of options that must be examined at each hop
60	var	Destination Options. A set of options passed to the first hop router and each intermediate router
43	var	Route Header. A header that allows various types of routing information to be enclosed
44	8	Fragment Header. Present in a fragment to specify the fields used for reassembly
51	var	Authentication Header. Specifies the type of authentication used and data for the receiver
50	var	Encapsulation Security Payload Header. Specifies the encryption used
60	var	Destination Options. A set of options passed to the ultimate destination
135	var	Mobility Header. Used to specify forwarding information for a mobile host

**Figure 7.14** Example options headers used with IPv6 and the *NEXT HEADER* value assigned to each.