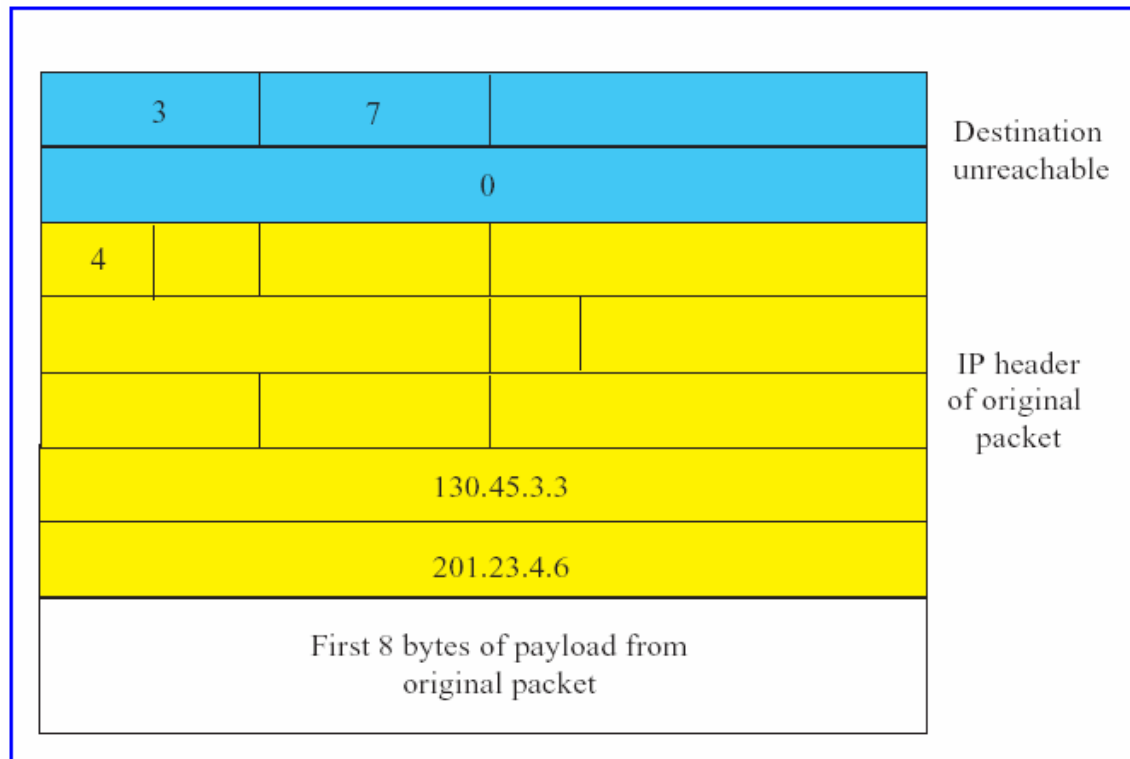


## Homework 4, Chapter 9: ICMP

**Table 9.1** *Solution to Exercise 27*

<i>Category</i>	<i>Type</i>	<i>Code</i>	<i>NonDest. host</i>	<i>Router</i>	<i>Destin. host</i>
<i>Error</i>	Destination unreachable	0		X	
		1		X	
		2			X
		3			X
		4		X	
		5		X	
		6		X	
		7		X	
		8		X	
		9		X	
		10		X	
		11		X	
		12		X	
		13		X	
		14		X	
	15		X		
	Source quench	0		X	X
	Time exceeded	0		X	
		1			X
	Parameter problem	0		X	X
Redirection	0		X		
<i>Query</i>	Echo request	0	X	X	X
	Echo reply	0	X	X	X
	Timestamp request	0	X		
	Timestamp reply	0			X
	Addr. mask request	0	X		
	Addr. mask reply	0			X
	Router solicitation	0	X		
	Router advertisement	0		X	

Figure 9.2 Exercise 35



42. Sending time =  $13,562,000 - 13,560,000 = 2,000$  milliseconds  
 Receiving time =  $13,567,000 - 13,564,300 = 2,700$  milliseconds  
 Round trip time =  $2,000 + 2,700 = 4,700$  milliseconds  
 Difference in clocks =  $13,562,000 - (13,560,000 + (4,700 / 2)) = -350$  milliseconds, which means that the sending clock is 350 milliseconds ahead of the receiving clock. This assumes that the one way transmission time is one half of the round trip transmission time.