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**Exercise 1 chapter 13:**

 In the Ethernet frame described in the text (figure 13.5 page # 410), what is the minimum and maximum number of bytes?

Min: 8+6+6+2+46+4 = 72 B

Max: 8+6+6+2+1500+4=1526 B

**Exercise 2 chapter 13:**

Suppose a higher layer application wants to send a file 12MB in size across an Ethernet LAN. How many Ethernet frames are needed? Assume the largest Ethernet payload is 1500 bytes.

12MB = 12\*1024\*1024=12582912 B

So 12582912/1500 = 8 388.608

So answer is 8388+1 = 8389