(1) Elwin Osbourne, CIO at GFS, Inc., is studying employee use of GFS e-mail for non-business communications. A random sample of 200 e-mail messages was selected. Thirty of the messages were not business related. The 90% confidence interval for the population proportion is _____.

- ○ 0.108 to 0.192
- ○ 0.145 to 0.255
- ○ 0.091 to 0.209
- ○ 0.153 to 0.247

(2) Max Sandlin is exploring the characteristics of stock market investors. He found that sixty percent of all investors have a net worth exceeding $1,000,000; 20% of all investors use an online brokerage; and 10% of all investors a have net worth exceeding $1,000,000 and use an online brokerage. An investor is selected randomly, and E is the event "networth exceeds $1,000,000," and O is the event "uses an online brokerage." P(E|O) = _____.

- ○ 0.70
- ○ 0.80
- ○ 0.50
- ○ 0.17

(3) If x has a binomial distribution with p> .5, then the distribution of x is _____.

- ○ skewed to the left.
- ○ skewed to the right.
- ○ a normal distribution.
- ○ symmetric.