

A random sample of 12 callers is chosen.

(a) Find the probability that fewer than 10 of these callers are connected immediately. [3]

[illegible]

A random sample of 80 callers is chosen.

- (b) Use an approximation to find the probability that more than 69 of these callers are connected immediately. [5]

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- (c) Justify the use of your approximation in part (b). [1]

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