

3. Materials requirements planning (MRP) systems are computerized planning and control systems for manufacturing operations. Since their introduction in the mid-1960s, MRP systems have been used to manage raw materials and work-in-process inventories while improving customer service. Suppose you want to estimate the proportion p of manufacturing firms that use MRP systems. Approximately how large a sample would be required to estimate p within 0.02 with a confidence coefficient of 0.95? (Use a conservative estimate of $p = 0.5$.) [2401]