5. A company sells seeds and claims that 55% of its pea seeds germinate.

   (a) Write down a reason why the company should not justify their claim by testing all the pea seeds they produce.

   (1)

   A random selection of the pea seeds is planted in 10 trays with 24 seeds in each tray.

   (b) Assuming that the company's claim is correct, calculate the probability that in at least half of the trays 15 or more of the seeds germinate.

   (3)