

Hand 12 both lie in the rejection Region.
The rejected region is illustrated in the diagram on the back of the previous page.

ii) If only half the dogs preferred Pupkins, $\frac{2}{2}$ the hypothesis 'at least eighty per cent of dogs prefer Pupkins' would still be rejected, since the observation 10 would lie in the rejection region. In fact, the null hypothesis $H_0: p = 0.8$ would be rejected with a higher level of certainty. The significance probability would then be only 0.008.

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load(blood)
> avh[57] pch[44] ach[40] pnc[77] (M246 p.84)
mean(avh) 2.587 ✓
mean(pch) 1.964 ✓
mean(ach) 2.651 ✓
mean(pnc) 2.248 ✓
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Aggressive chronic hepatitis and acute viral hepatitis are the least easily distinguishable, since their means are the closest of any two groups of measurements.

The greatest difference in the level of the hormone ^{seems to} be between aggressive chronic hepatitis and persistent chronic hepatitis. ✓ $\frac{4}{4}$
ii) The two samples t-test assumes that both samples can be modelled by a normal distribution, and that both samples have the same variance. ✓ equal. and try one independent $\frac{2}{3}$