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3 In experiments characterized by N measurements of the same quantity, we can display data in the form of a histogram which has on the vertical the fraction F_i of the N measurements that gave the result x_i (where $i = 1, 2, 3, \dots, N$) and on the horizontal the measured values x_1, x_2, \dots, x_N . As the number of measurements increases, the histogram changes into a quasi-continuous

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approximate uncertainty. Step 3 of 5 (b)
The number of particles observed by Student B in 30 minutes is 310.

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Assess experimental procedure including identification of potential difficulties –
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Advise what procedures need to be put in place for measurement • Identify instruments and procedures that control accuracy and precision – Usually one, or at most a small number, out of the large set of

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5.1 The solution and its errors at the

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point (x,t) can be obtained by “adding up” the solution and errors for the waves within the domain of dependence 64

5.2 Schematic graphs illustrating all contributions to the errors or uncertainty in the output from a single Riemann solution, namely

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With probability 0.1 the result will be -1, with probability 0.5 it will be zero, and with the remaining probability 0.4 it will be + 1. So, the measurement result will be a discrete random variable Y^* , with $E[Y^*] = 0.1(-1) + 0.5 \cdot 0 + 1 \cdot 0.4 = 0.3$.
 $\text{Var}[Y^*] = 0.1 \cdot (-1)^2 + 0.4 \cdot (1)^2 - 0.3^2 =$

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