Quiz 4 Student Mistakes

Q1:

- False
  - Argued why it shouldn't be true, but never said why it was false
  - Examples which don't work because of miscalculation
- True
  - Can't divide by 0 when doing P(A) or P(B) in denominator
  - Can't cancel 0/0
  - Example where it's true doesn't prove it's true
- Both
  - Independence or correlation is irrelevant
  - Circular reasoning "Yes it is T/F because if premise then conclusion is T/F"
  - Nonsense trees
  - Incorrectly giving numerator/denominator in Bayes' Theorem

True with division by 0: ½ point
False with nonsense explanation: ½ point for correctly guessing false
Otherwise: 0

Q2

- Naming right probability
  - It's P(M|+) not P(M & +), P(+|M), or anything else
  - Say 0.99, so 0.99 -> no credit
  - Make up stuff -> no credit
- Bayes' Theorem
  - 1 point each for denominator, numerator
  - -½ for using 0.01 instead of 0.0001
  - -½ for wrong term in denominator
- Simplification
  - -1 for not simplifying
  - Percentages or decimals are not fractions
  - Remind students what integers, fractions, and reduced fractions are

Q3: True/false questions, so it's right or wrong. Nothing more to say without mind reading.