Extra Credit – Availability and Methodology

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• Normatively, not needed!
  – We are Fair~!
  – Most would scoff at the request
• Realities
  – Test-taking skills
  – Illness
  – Unfamiliar paradigm
• Can Belie the “TRU” ability
• Actually can do productive work for the class, instructor(s) & the student
Types of EC

• Type of Extra Credit (EC)
  – Assignment Extra Credit
  – Exam Extra Credit
  – Course Extra Credit
• Setup
  – $D = \text{Total points in assignment}$
  – $N = \text{total points earned}$
  – $S = \text{Earned score} = \frac{N}{D}$
• “Worth 10 points Extra Credit”
  – Actually is “Worth $p \cdot D$ points…”
  – Usually seen on exams
  – Asymmetric Windfall to student
• “Worth 10% Extra Credit”
  – Symmetric Windfall to student
“$p \cdot D$ points Extra Credit”

\[ N_1 = N + pD \]

\[ S_1 = \frac{N_1}{D} = \frac{1}{D} (N + pD) = S + p \]

\[ W_1 = \frac{S_1}{S} = \frac{N_1}{D} \cdot \frac{D}{N} = \frac{N_1}{N} \]

\[ = \frac{N + pD}{N} = 1 + p \left( \frac{1}{S} \right) \]

“$p\%$ Extra Credit”

\[ N_2 = N(1 + p) = N + Np \]

\[ S_2 = \frac{N_2}{D} = S \cdot (1 + p) \]

\[ W_2 = \frac{S_2}{S} = \frac{N_2}{N} = (1 + p) \]
Hope you Won’t Need it!