

Quantitative Skills and Reasoning
Spring 2019 – M. Goodroe
Quiz #1

Name: Key

Instructions: Do not solve "Algebraically", rather make a guess, test it, and revise until you have the correct values which confirm the conditions. What is important here is that you show your process and all steps – the answer is of lesser importance!

In a recent National Football League season, Tom Brady, Phillip Rivers, and Aaron Rodgers threw a total of ninety-four touchdown passes. If Rivers had two more touchdowns than Rodgers and six fewer than Brady, how many touchdown passes did each quarterback have? (10 Points)

$$\begin{array}{l}
 \begin{array}{c} T \\ \nabla_1 \end{array} = \begin{array}{c} B \\ \square \end{array} + \begin{array}{c} R \\ \square \end{array} + \begin{array}{c} AR \\ \square \end{array} = 94 \\
 \begin{array}{c} T \\ \nabla_2 \end{array} = \begin{array}{c} \square \\ \cancel{30} \end{array} + \begin{array}{c} \square \\ \cancel{30} \end{array} + \begin{array}{c} \square \\ \cancel{34} \end{array} = 94 \checkmark \\
 \begin{array}{c} T \\ \nabla_2 \end{array} = \begin{array}{c} \square \\ \cancel{32} \end{array} + \begin{array}{c} \square \\ \checkmark 32 \end{array} + \begin{array}{c} \square \\ \checkmark 30 \end{array} = 94 \checkmark \\
 \begin{array}{c} T \\ \nabla_3 \end{array} = \begin{array}{c} \square \\ \checkmark 36 \end{array} + \begin{array}{c} \square \\ \checkmark 30 \end{array} + \begin{array}{c} \square \\ \checkmark 28 \end{array} = 94
 \end{array}$$