## Free Fall Practice Problems from 2.4

On a separate sheet of paper, show your work. List your knowns (suvat), show which formula you are going to use, and show the knowns in that formula. Round to the correct significant figures, ignore air friction and use the convention that down is negative. $\mathrm{g}=9.81 \mathrm{~m} / \mathrm{s} / \mathrm{s}$
$\left.\begin{array}{|l|l|}\hline 49.0 \mathrm{~m} \\ 31.0 \mathrm{~m} / \mathrm{s} \\ 32.4 \mathrm{~m}\end{array} \quad \begin{array}{l}\text { 1. A Turkey is shot straight up and remains in the air for a total (up and down) time of } \\ 6.32 \text { s before coming down again to the same elevation. What is the greatest height it } \\ \text { reaches? What was its initial velocity? What is its displacement exactly } 5.00 \text { seconds } \\ \text { after it is launched? }\end{array}\right\}$

