Making Sure You Make Sure Quiz!!

1. Rumpty Dumpty is dropped into a very deep wishing well (mean old King’s men!). He hits the water 6.0 s later. (this isn’t the same value as your homework) (2 per part)
2. How far is it from top to water?
3. At what velocity does Humpty hit the water?
4. What was Humpty’s Vave on the way down?
5. How far had Humpty fallen when it reached –25 m/s?
6. What was Humpty’s velocity when it had fallen 50 m ?
7. How far did Humpty fall in the 3rd second of its motion?
8. Draw a rough d vs t and v vs t graphs of Humpty’s motion.
9. Tommy Texter was looking to go for a sail here in the OK Valley on the windiest of days. He launches his boat due north from the dock at 15 km/h with a current that’s going west at 7km/h. What is his actual velocity and what angle is he traveling at? (4).
10. A baseball pitcher makes a big mistake and throws the ball straight up. If it reaches a maximum height of 15 m find...(2 each)
11. the initial velocity he threw it up with.

1. the total time the ball spent in the air.
2. the ball’s average velocity on the way up to the top.

1. the ball’s velocities the ball was 8.0 m above the ground.
2. the times when the ball was 8.0 m above the ground.