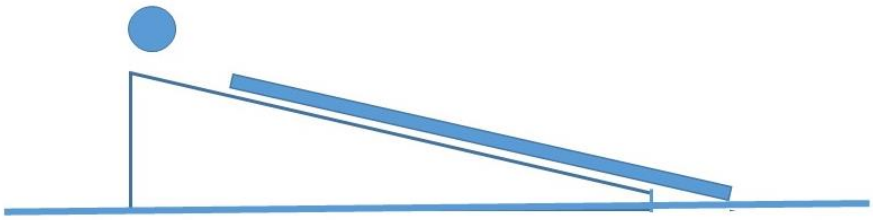
Let's analyze "dat" ramp!



The table surface is the reference point, so the length of the ramp has to be measured from then top of the ramp to the surface

1) Find the length of the ramp and height of the ramp. l = _____m h = _____m

2) Calculate the angle the ramp is at. _____^{0} show work:

3. If "g" acts straight down, determine "a_p" (acceleration down the ramp) show work:

4) Roll the cue ball down the ramp. Wow! (Please catch it)

5) Use "dat" to find time. show work:

6) Use "vad" to find v_2 (final velocity) show work:

7) Use v_2 from #6 to verify time using "dvt" . show work:

8) Use v_2 from #6 and time from #5 to verify acceleration. Show work:

9) Perform Error Analysis (E_A and E_R) using "a" from #3 at the "A" value and "a" from #8 as the "O" value. Show work