HUIDAYS HOMEWORK LAISS H DYSIC 1. We measure the period of oscillation of a simple pendulum. In successive measurements, the readings turn out to be 2.63 s, 2.56 s, 2.42 s, 2.71s and 2.80 s. Calculate the absolute errors, relative error or percentage error. 2. An aircraft has a lift-off of 120km/h. (a) What minimum constant acceleration does the aircraft require if it is to be airborne after a takeoff run of 240m? (b) How long does it take the aircraft to become airborne? 3. A ball is thrown vertically upward with a speed of 25.0m/s. (b) How long does it take to reach its highest point? (c) How long does it take to reach its highest point? (c) How long does it take to reach its highest point? (c) What is its velocity when it returns to the level from which it started? (c) What is its velocity when it returns to the level from which it started? (c) What is its velocity when it returns to the level from which it started? (c) What is its velocity when it returns to the level from which it started? (c) Who long does it take to rit to fall back to the earth? (c) How long does it take to rit to fall back to the earth? (c) How long does it take for it to fall back to the earth? (c) How long does it take for it to fall back to the earth? (c) How long does it take for it to fall back to the earth? (c) How long does it it going when it hits the ground? (c) How long does it it is going when it hits the ground? (c) How fast is it going when it hits the ground?

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