

- 3** A student wants to calculate the pressure he exerts on the floor when he stands on one foot. He records these measurements.

My weight	650
Area of the floor in contact with my foot	270 cm ²

- (a) (i) Complete the table by adding the unit for weight. (1)

- (ii) Which piece of equipment should the student use to measure his weight? (1)

- (b) Suggest how the student measured the area of the floor in contact with his foot. (3)

- (c) (i) State the equation linking pressure, force and area. (1)

- (ii) Calculate the pressure that the student's foot exerts on the floor. (2)

pressure = N/cm²

(Total for Question 3 = 8 marks)

