4 A student places a pile of coins on a table, as shown in photograph **A**.



Photograph A

There are 8 coins in the pile.

The weight of each coin is 0.036 N.

The area of each coin is 0.0013 m².

(a) (i) State the equation linking pressure, force and area.

(1)

(ii) Calculate the pressure on the table caused by the pile of coins.

(2)

Pressure = Pa

(b) The student then spreads the 8 coins out on the table as shown in photograph ${\bf B}$.



Photograph **B**

Explain how this affects the pressure on the table caused by the coins. (2)	