1 Complete these sentences by crossing out the words that are wrong.

a The snowshoes have a (large/small) area so the pressure under them is (high/low) and the person does not sink into the snow.

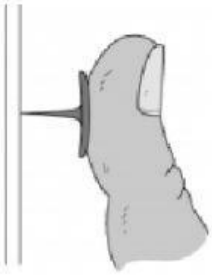
b The crampons have spikes on the bottom. The area of the spikes is (large/small) so the pressure under them is (high/low). This helps them to grip the ice.

c The point of the drawing pin has a (large/small) area. The pressure under the point is (high/low), which helps it to go into the wall.

d The head of the drawing pin has a (large/small) area. The pressure here is (high/low) so that it does not hurt your thumb.

e You can increase the pressure by making the force (bigger/smaller) and the area (bigger/smaller).

f You can decrease the pressure by making the force (bigger/smaller) and the area (bigger/smaller).



2 Fill in the gaps to calculate the pressure under the boots.

area of boots = _____ cm^2

weight of man = _____ N

pressure = force ÷ _____

= _____ ÷ _____

= _____ N/cm^2

LIVEWORKSHEETS