

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

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

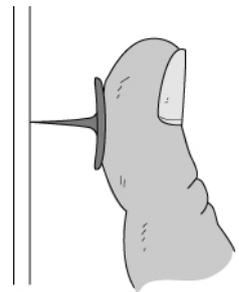
- a The snowshoes have a (large/small) area so the pressure under them is (high/low) and the person does not sink into the snow.



- 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<sup>2</sup>

weight of man = \_\_\_\_\_ N

pressure = force ÷ \_\_\_\_\_

= \_\_\_\_\_ ÷ \_\_\_\_\_

= \_\_\_\_\_ N/cm<sup>2</sup>



**I can...**

- describe how the pressure depends on force and area
- calculate pressure.