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

- a The snowshoes have a ~~big~~ (small) area so the pressure under the ~~feet~~ (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.

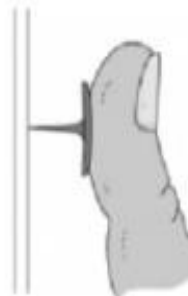


- c The point of the drawing pin has a (large/small) area. The pressure under the point is (high/low), which helps it to go into the wall.

- 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 = 360 cm²

weight of man = 600 N

pressure = force ÷ area

$$= 600 \div 360$$

$$= 1.67 \text{ N/cm}^2$$

