



A frame is made from wire. The frame is a trapezium
Calculate the total amount of wire needed to make the frame.

Give your answer to 1 decimal place.

The equation below can have irrational or rational solutions.

$$5x^2 = \frac{1}{a}$$

Write down a value for **a** which gives rational solutions.

Write down a value for **a** which gives irrational solutions.

Write down a value for **a** which gives no solutions.

Cuboids A and B are similar but made from different materials.
Both cuboids are placed on a table.

The pressure on the table due to Cuboid A is 3.5 newtons/cm².
Cuboid A exerts a force of 420N on the table.

The pressure on the table due to Cuboid B is 4 times larger than Cuboid A.

Work out the force exerted by cuboid B on the table.

