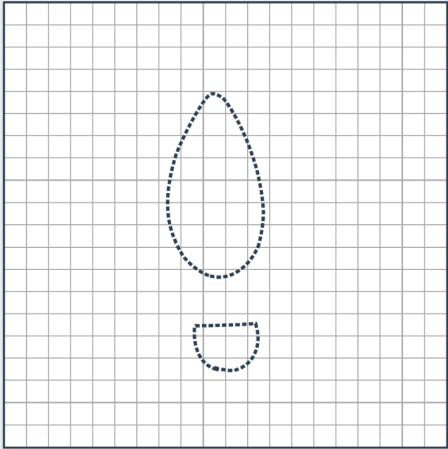


Investigating Pressure

Aim: You are investigating how to make measurements and calculate pressure of feet on the ground



Each square = 1 cm × 1 cm — Count the squares inside the outline

Choose subject:

Girl (50 kg) ▾

Force (N) = mass × 10

500 N

Total area (cm²):

Enter squ:

Your calculated pressure (N/cm²):

Force ÷ Ar

Check Answer

Add to Results

Reset Subject

Method:

1. Select a subject from the control panel
2. Count the number of squares inside the outline
3. Check the area of each square and work out the total area of one foot
4. Work out the total area of all the feet
5. Record your data in the results table
6. Calculate the pressure on the ground

Prediction:

Which subject will have the highest pressure and why?

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Results:

Subject	Mass (kg)	Weight (N)	Total Area (cm ²)	Pressure (N/cm ²)

Analysis:

How does this compare with your prediction?

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Extension:

Using square paper find the area of your own feet and work out your pressure on the ground

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