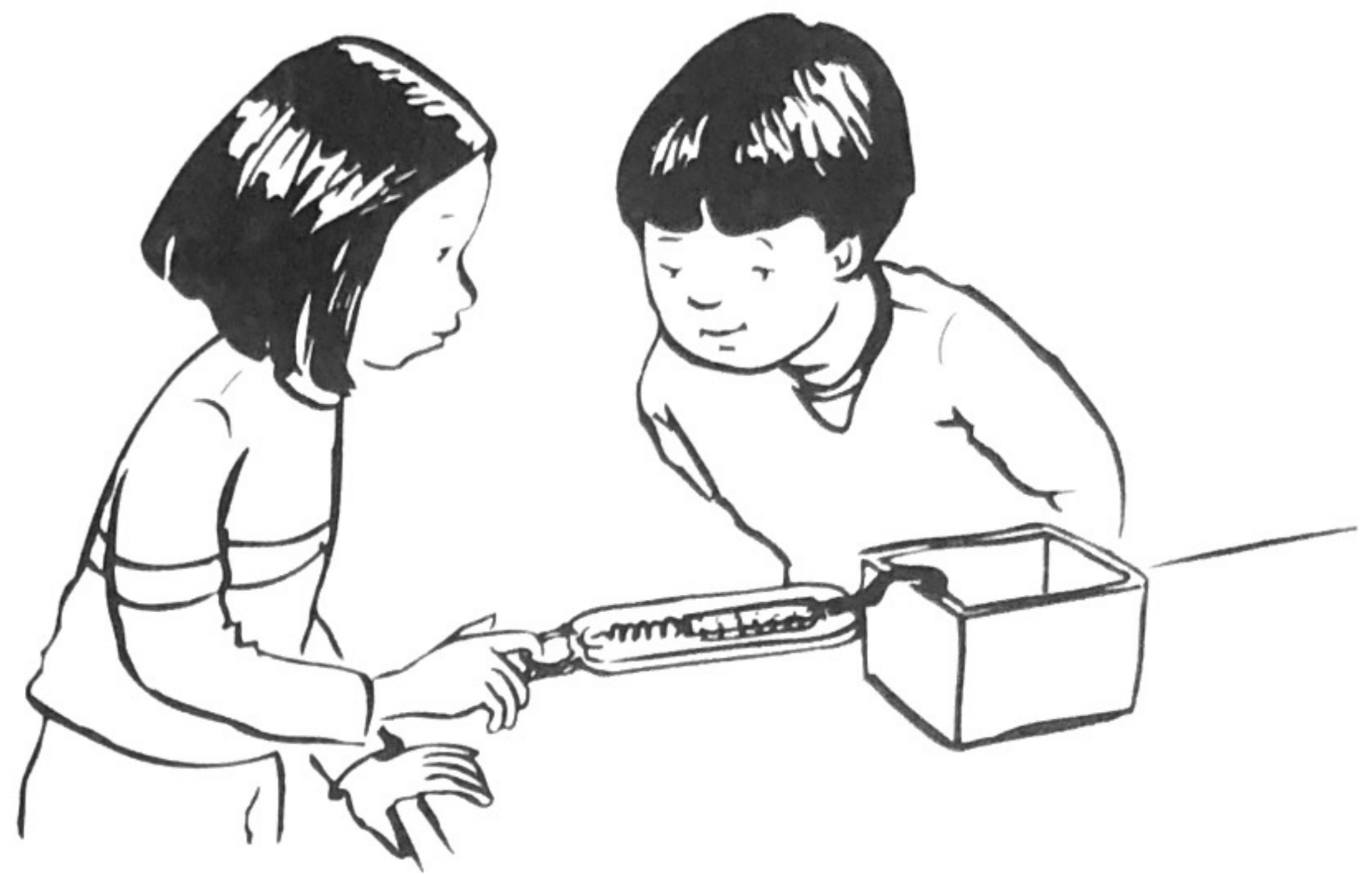
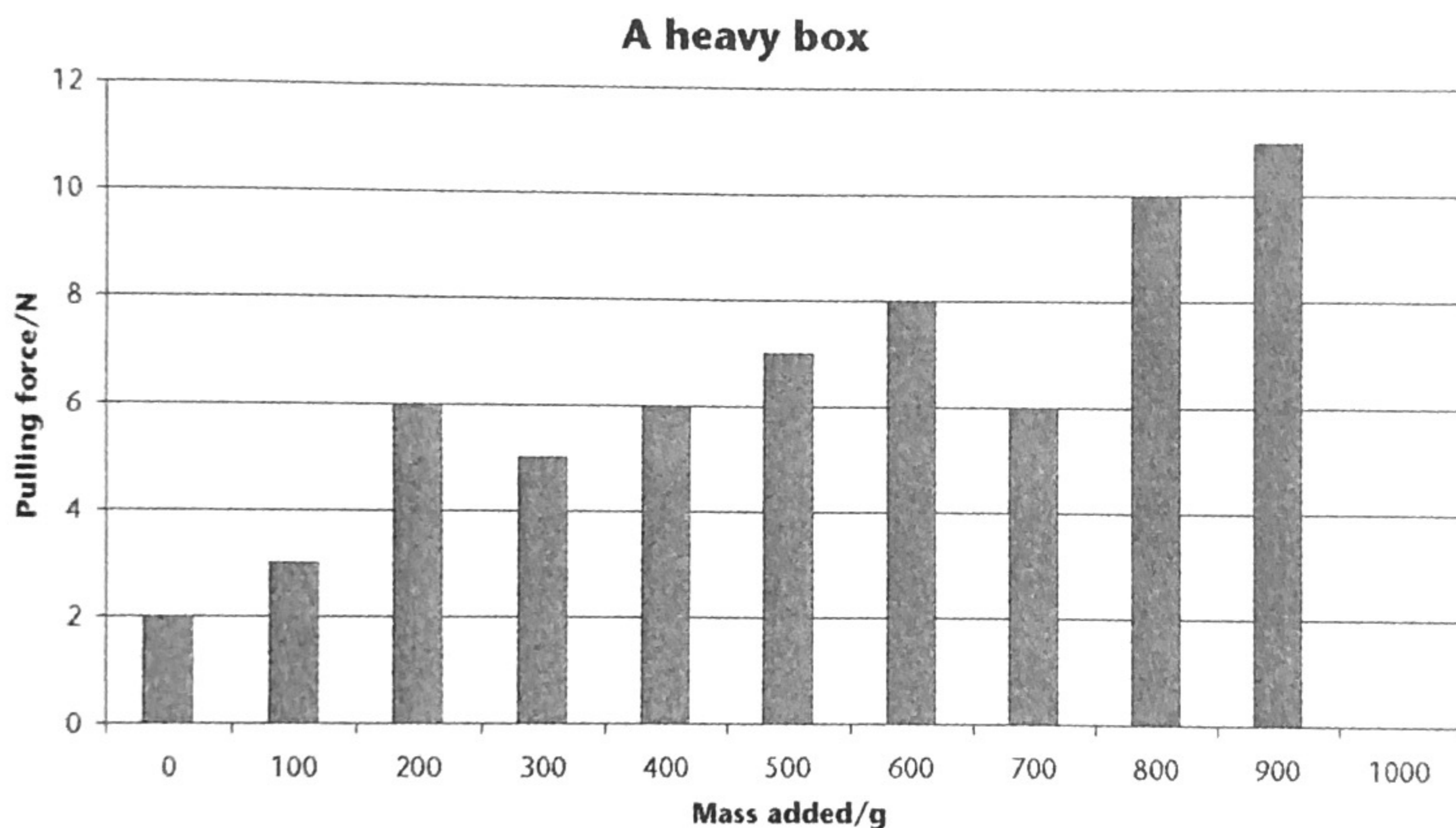


A heavy box

Mei Tin and Chi Kin thought that a heavier box would be harder to pull than a lighter one. They put weights in a wooden box to see whether that changed the pulling force needed to move the box. They added another 100g each time.



Here is a bar graph of the children's results.



Questions

1. What pulling force is needed for **a)** 400g **b)** 500g?
2. Which two results do you think the children should check again?
3. Explain how you decided this.
4. What results would you expect the children to get if they tried with those two masses again?
5. Draw a bar to predict the result for 1000g.
6. What would you expect the result to be if they tried 450g?
7. How does the amount of mass added to the box affect the force needed to pull it?
8. Name two things the children should do to make their investigation a fair test.
9. Why is the pulling force needed more than zero even when there are no weights in the box?