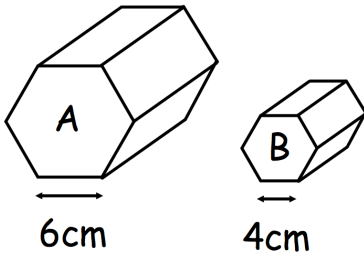$a^b = 1$

Write down three possible pairs of values for a and b.

The values of a must be different in each answer.
The values of b must be different in each answer.

Prisms A and B are similar.

6cm   4cm

The volume of prism A is 2025cm³

Work out the volume of prism B.

Declan ran a distance of 100m in a time of 14.5 seconds.

The distance of 100m was measured to the nearest 5 metres.
The time of 14.5 was measured to the nearest tenth of a second.

Work out the lower bound for Declan's average speed.

In May, the price of a mobile phone was reduced by 30%.
In September, the price was reduced by a further one quarter.

What percentage saving would a customer make by buying the mobile phone in September rather than April?

Factorise $2w^2 - 9w + 4$