



Simplify  $(\sqrt{2})^5$

An item in a shop is increased in price by 25% and then decreased in price by 25% a month later.

Is there an overall increase or decrease in price and by how much?

The length of a 80m running track is correct to the nearest metre.

The time taken for Nicole to run the distance is 13.6 seconds measured to the nearest one-tenth of a second.

What is the slowest possible average speed?

A helicopter takes off from town A and travels 10 miles on a bearing of  $090^\circ$  and then 15 miles on a bearing of  $180^\circ$  to land at town B.

What is the bearing of B from A?

A football team obtains 3 points for a win, 1 point for a draw and no points for a loss.

For any match  
 $P(\text{win}) = 0.6$     $P(\text{draw}) = 0.3$   
 $P(\text{loss}) = 0.1$

The team plays 3 matches. What is the probability of the team obtaining exactly 7 points?