



Work out

$$8^{-\frac{2}{3}}$$

Factorise

$$20x^2 - 23x + 6$$

Two ships, A and B, leave a port at 10:30

Ship A travels on a bearing of  $196^\circ$  at a speed of 30km/h.

Ship B travels on a bearing of  $244^\circ$  at a speed of 24km/h.

Work out the distance between A and B at 14:00

A bag contains 14 sweets.  
8 sweets are red.  
4 sweets are yellow.  
2 sweets are green.  
Three sweets are taken from the bag without replacement.

Work out the probability that the three sweets are the same colour.