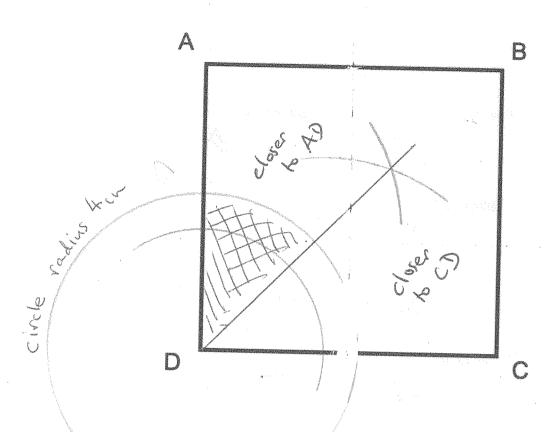
## M7 =19 days to go!

A and B are two points.



Shade the region inside the rectangle, which is closer to AD that DC, and less that 4cm from D.

Remember Loci means distance

Loci of a Point

Louisf 2 points

OC X

circle around that point

Z POM

Some distance from both points

Loci & 2 lines

(3)

10 di

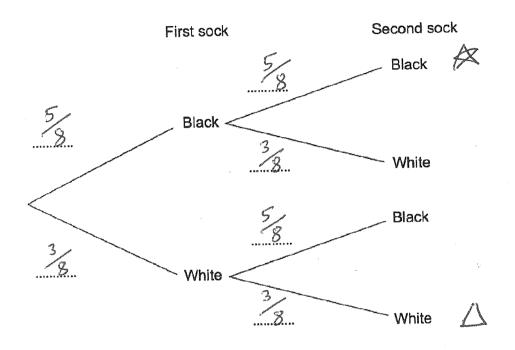
angle bisector

- Natalie has 8 socks in a drawer. 2.
  - 5 of the socks are black.
  - 3 of the socks are white.

Natalie takes out a sock at random, writes down its colour and puts it back into the drawer.

Then Natalie takes out a second sock, at random, and writes down its colour.

(a) Complete the probability tree diagram.



(b) Work out the probability that the two socks are the same colour.

(b) Work out the probability that the two socks are the same colour.

$$B|ack & B|ack = A = \frac{5}{8} \times \frac{5}{8} = \frac{25}{64}$$

(2)

White & White = 
$$\Delta = \frac{3}{8} \times \frac{3}{8} \left(\frac{9}{64}\right)$$
  
Answer =  $\frac{34}{64}$