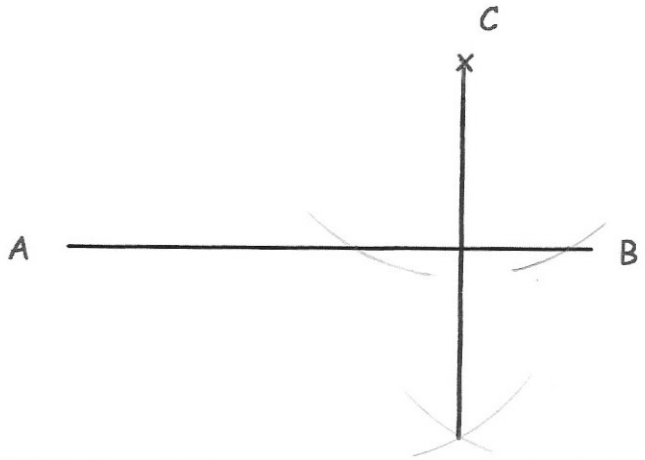
18th April **Foundation Plus 5-a-day**

Corbettmaths

Use a ruler and compasses to construct the perpendicular from the line segment AB to the point C.



Expand and simplify

$(x+3)^2+(x-1)^2$

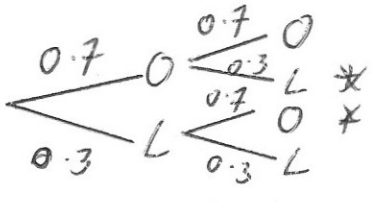
$(x+3)(x+3)+(x-1)(x-1)$

$x^2+3x+3x+9+x^2-x-x+1$

$2x^2+4x+10$

The probability that a train arrives late is 0.3
Arlo is travelling by train on Saturday and Sunday.

Show this information on a probability tree diagram.



Calculate the probability the train is on time both days.

$0.7 \times 0.7 = 0.49$

Calculate the probability the train is late one exactly one day.

$0.7 \times 0.3 = 0.21$

$+ \ 0.3 \times 0.7 = 0.21$

0.42