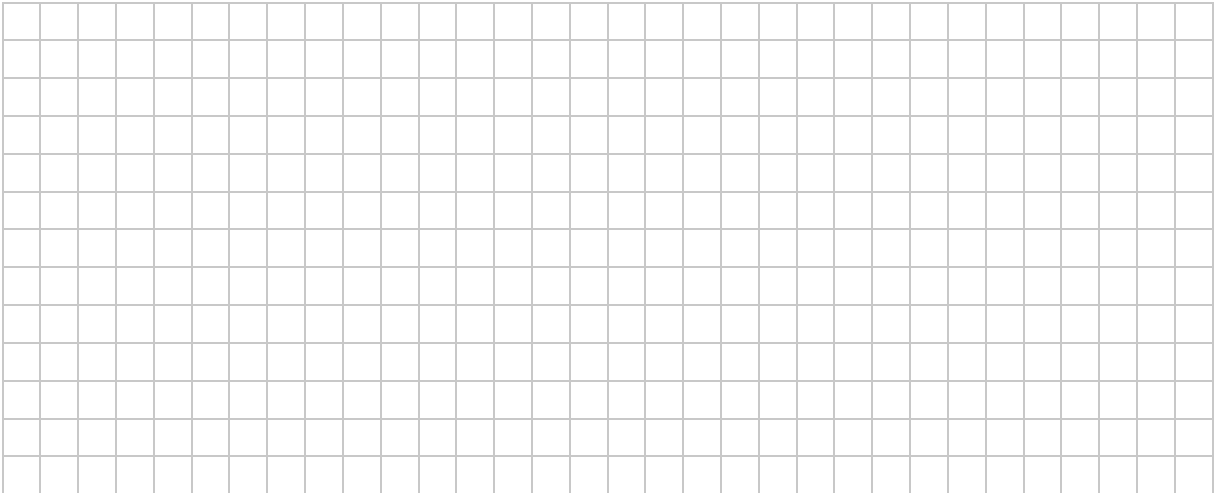
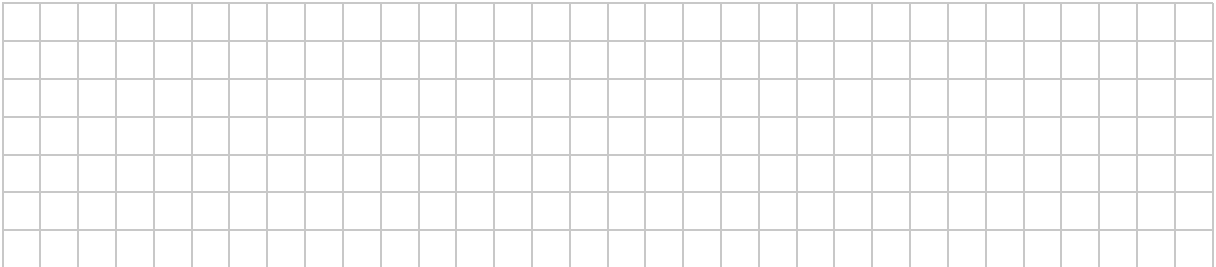


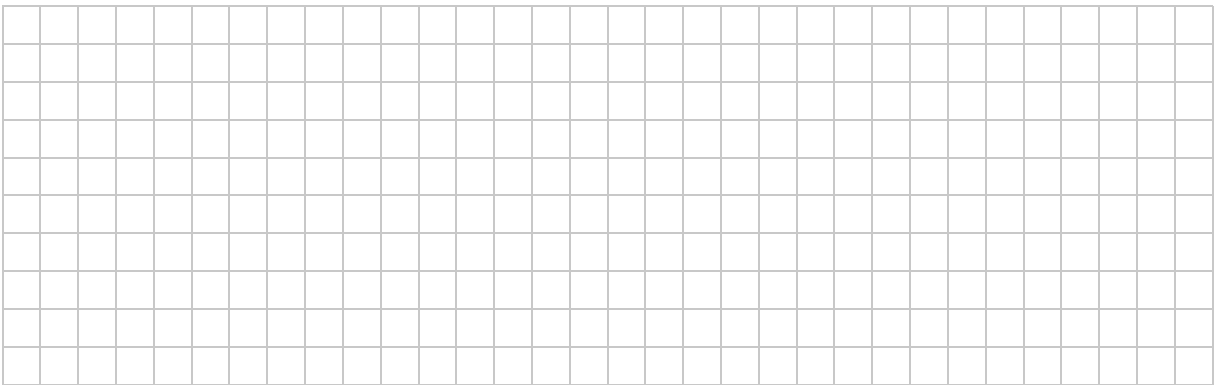
- (c) Hence find $|CT|$, the distance from the base of the tree to the bank of the river at Conor's side. Give your answer correct to 1 decimal place.



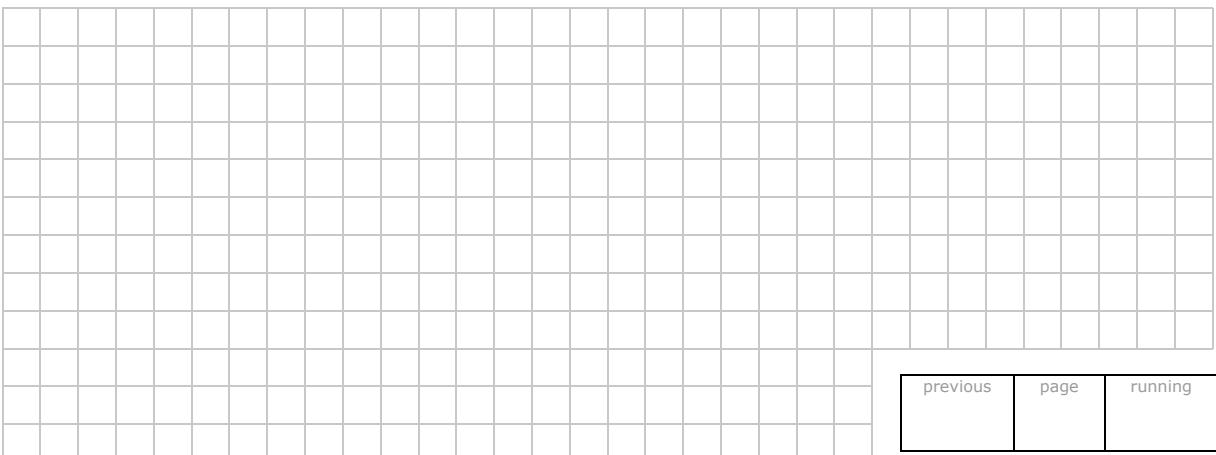
- (d) Find $|TE|$, the height of the tree. Give your answer correct to 1 decimal place.



- (e) The tree falls across the river and hits the bank at Conor's side at the point F . Find the maximum size of the angle FTC . Give your answer in degrees, correct to 1 decimal place.



- (f) If the tree was equally likely to fall in any direction, find the probability that it would hit the bank at Conor's side, when it falls. Give your answer as a percentage, correct to 1 decimal place.



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