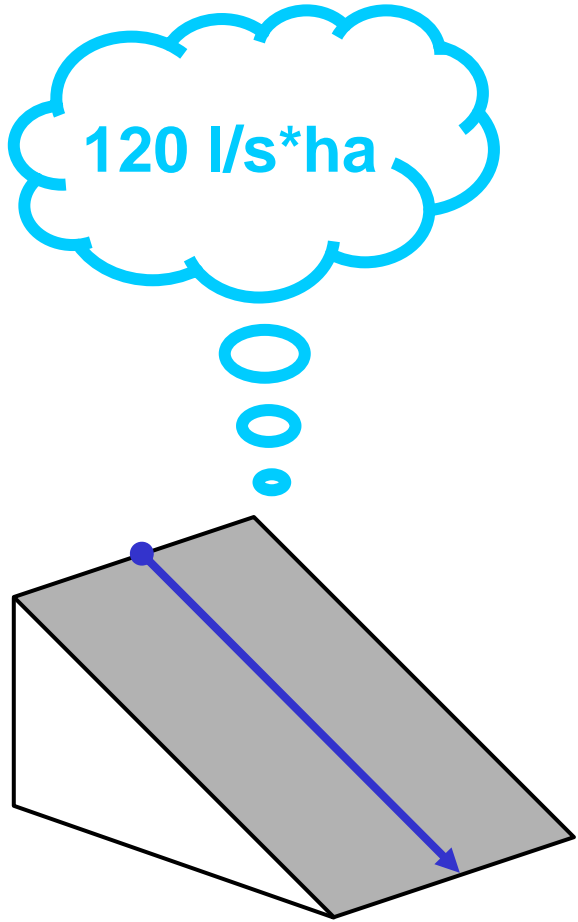


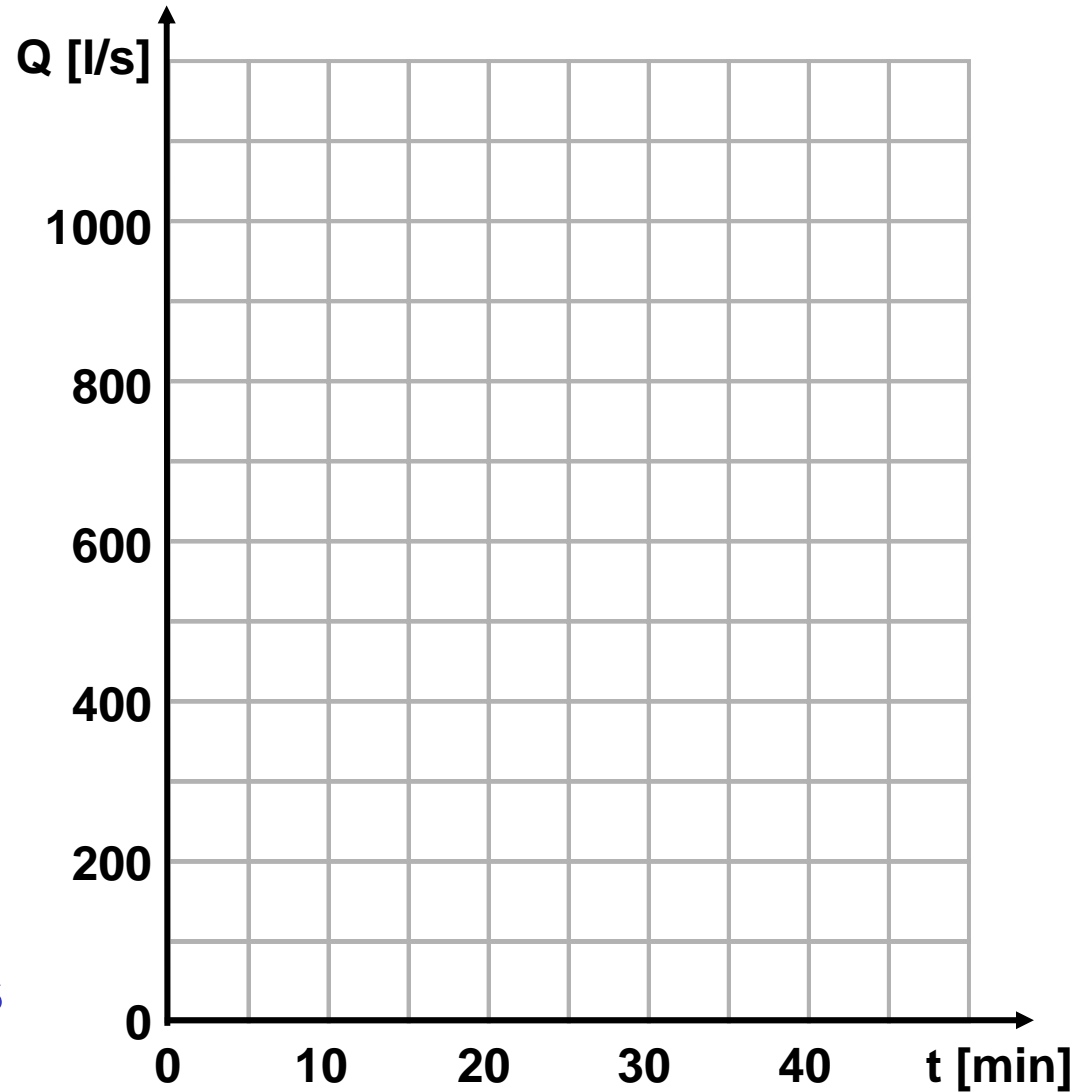
# Problem A: Rational Method

<b>Link ID</b>										
Area [ha]										
Runoff coefficient										
Reduced Area										
SUM	Reduced Area [ha]									
	Estimated concentration time [min]									
	Design rainfall intensity [l/s*ha]									
	<b>Design Discharge [l/s]</b>									
Length [m]										
Slope [‰]										
<b>Diameter [mm]</b>										
Full flow discharge $Q_f$ [l/s]										
Full flow velocity $v_f$ [m/s]										
Proportional flow rate $Q/Q_f$ [ ]										
Proportional velocity rate $v/v_f$ [ ]										
Part-full velocity [m/s]										
Computed concentration time [min]										

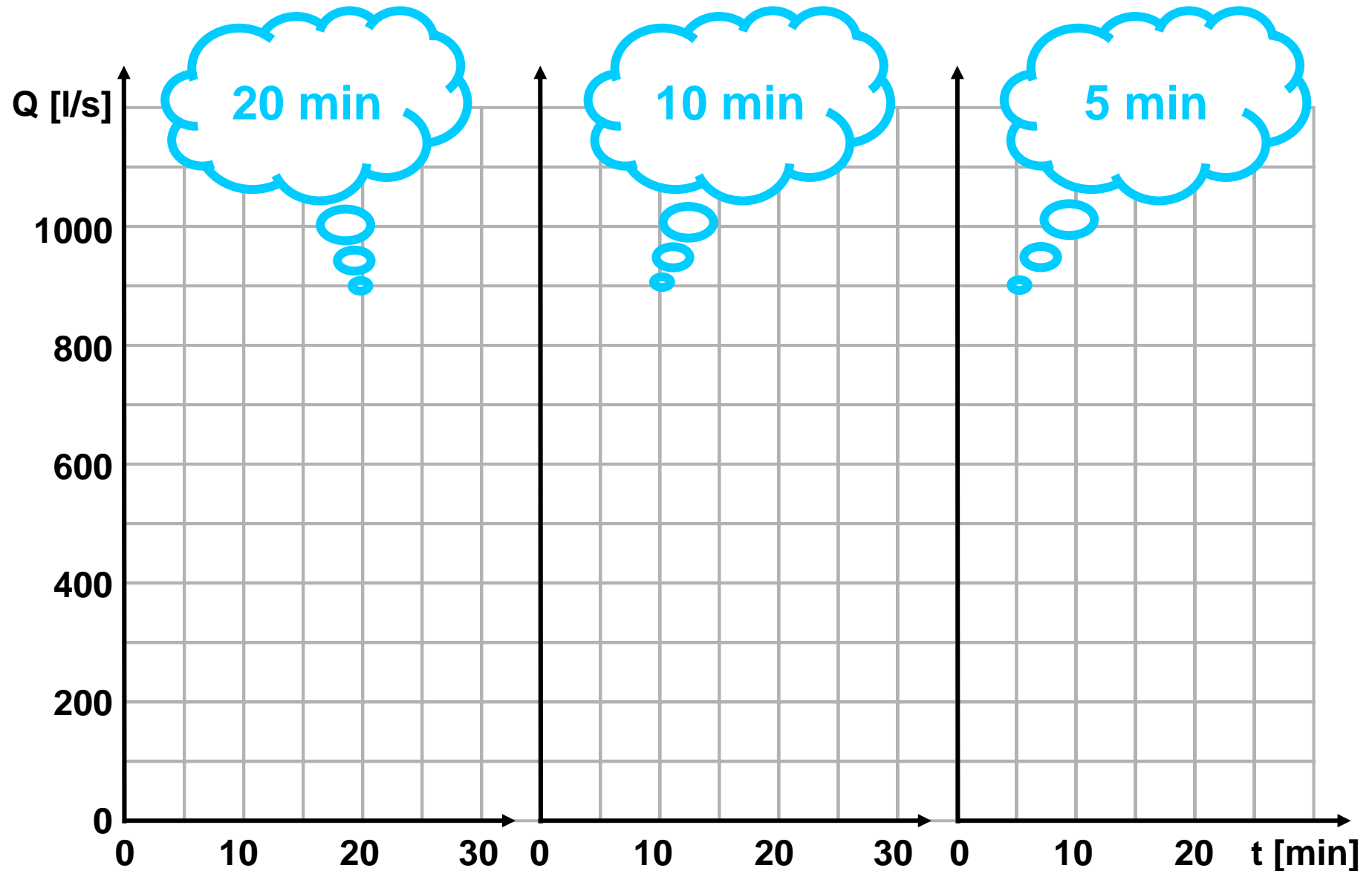
# Problem B: Time-Area (sort of)



**A = 5 ha**  
**L = 480 m, v = 0,8 m/s**

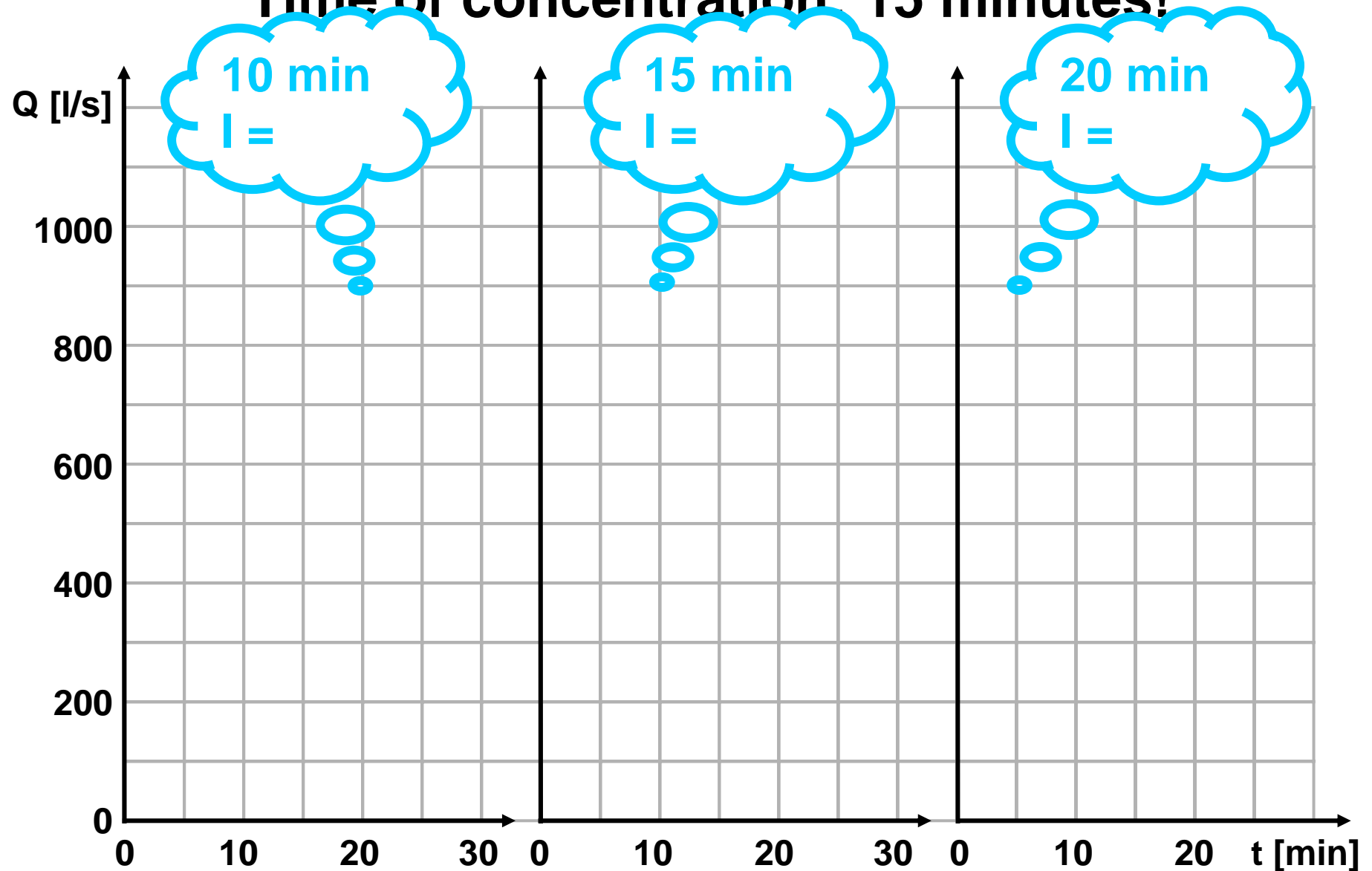


# Hydrographs with $I = 120 \text{ l/s*ha}$

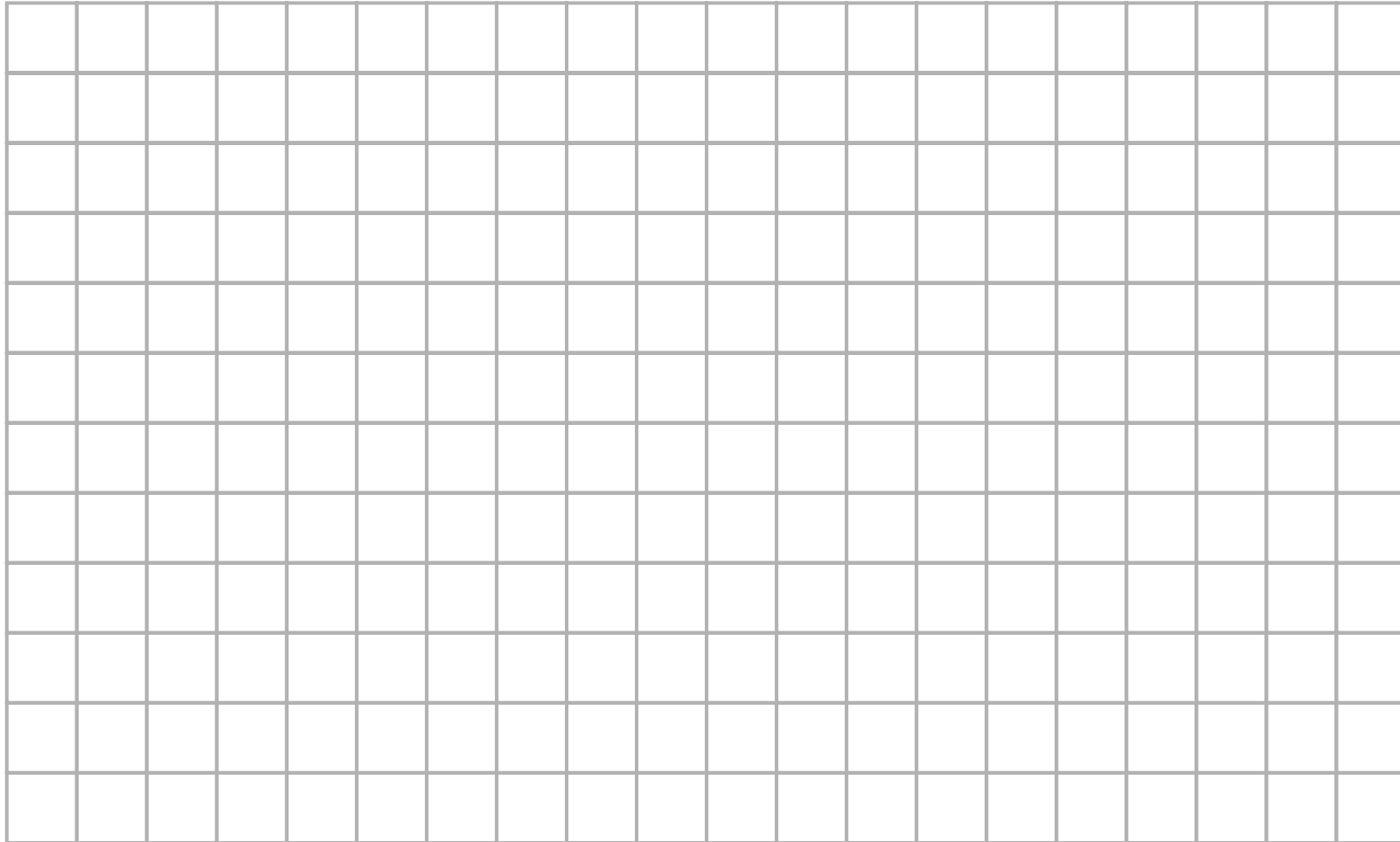


# Hydrographs with $I = f(\text{duration})$

**Time of concentration: 15 minutes!**



# Complex hydrographs



# Single event: hydrograph

