

YOU & MATHS **Julie's bank account** Julie opened a bank account on the 19th of May and she recorded her withdrawals and deposits, but she did not check her account for a week and received a notice on the 27th of May from the bank saying she had overdrawn her account.

Date	Purpose	Payment	Deposit
May 19 th	Initial deposit		\$ 100
May 24 th	Hair cut	\$ 45	
May 24 th	Book shop	\$ 73	
May 26 th	Sushi dinner	\$ 24	

- a. When did Julie overdraw her account?
- b. How much does Julie need to deposit to reach a positive balance again?
- a. Julie overdrawn her account when she paid the bookshop on the 24th of May, because at that point her account contained $\$ 100 - \$ 45 - \$ 73 = -\$ 18$. A negative amount of money in this case means that Julie has overdrawn her account.
- b. Since Julie already had a debt of \$18 after she paid the bookshop, when she paid for the sushi dinner her debt rose to $\$ 18 + \$ 24 = \$ 42$, so she must deposit just more than \$42 to reach a positive balance again.