Question 35 (7 marks)

The Intelligence Quotient (IQ) scores for adults in City A are normally distributed with a mean of 108 and a standard deviation of 10.

The IQ scores for adults in City *B* are normally distributed with a mean of 112 and a standard deviation of 16.

a)	Yin is an adult who lives in City A and has an IQ score of 128.	2
	What percentage of the adults in this city have an IQ score higher than Yin's?	
b)	There are 1 000 000 adults living in City B.	2
	Calculate the number of adults in City B that would be expected to have an IQ score lower than Yin's.	

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