

## Question 1

**(25 marks)**

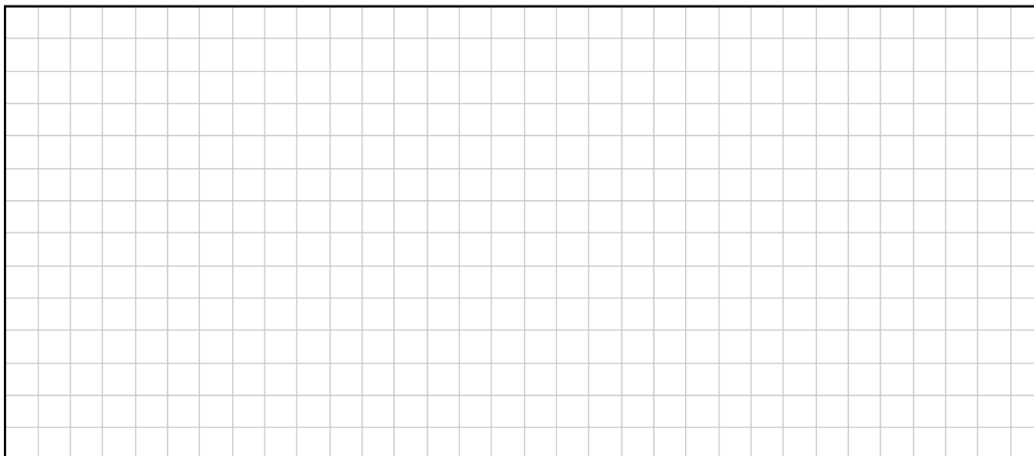
## Question 2

### Question 4

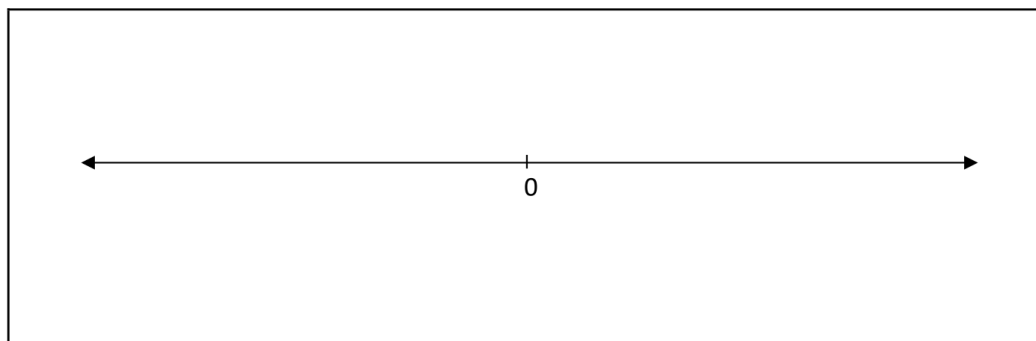
(30 marks)

- (a) (i) Solve the following inequality, for  $x \in \mathbb{R}$ :

$$5 - 2x \leq 11$$

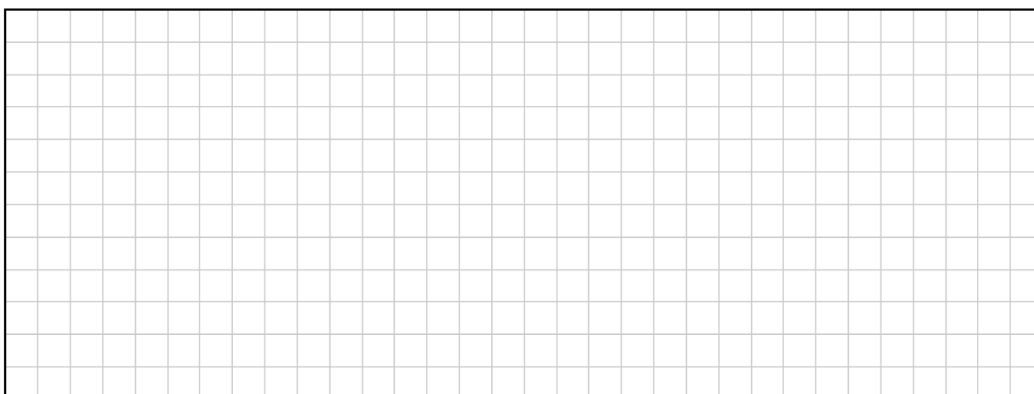


- (ii) Show the solution set on the number line below. Remember that  $x \in \mathbb{R}$ .

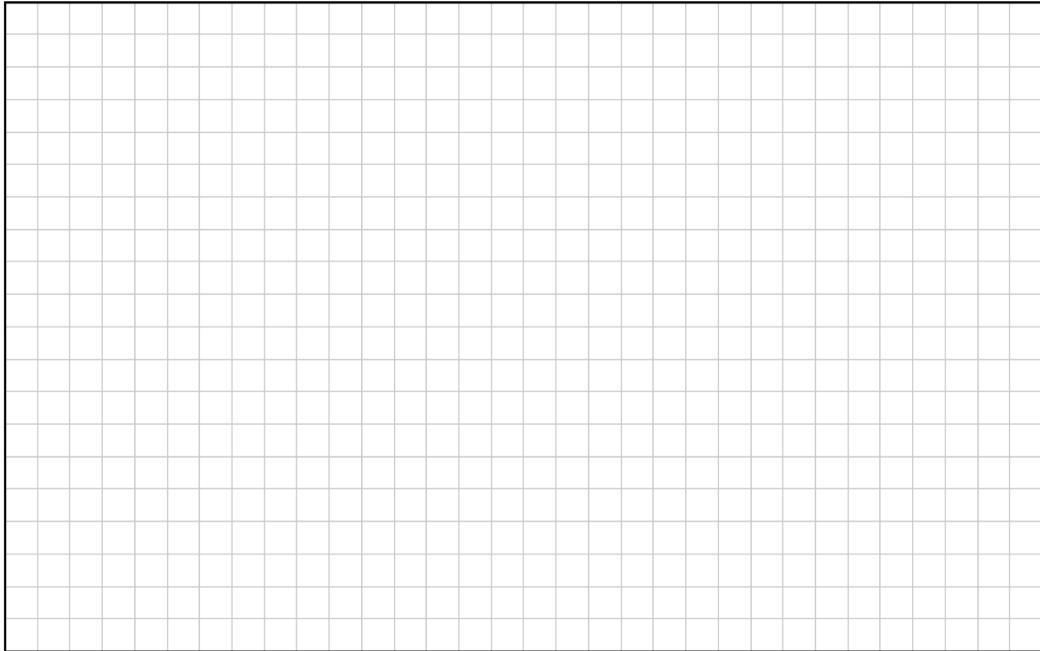


## Question 3

- (b) (i) Florence bought a golf club online from a company in Britain.  
The cost was £138.75 sterling.  
The exchange rate was €1 = £0.8338.  
How much did the golf club cost in euro?  
Give your answer correct to the nearest cent.



- (ii) Florence also bought a golf bag at her local golf club during a sale.  
The original cost was €125, including VAT at 23%.  
She got a discount of 15% in the sale.  
Work out how much **VAT** Florence paid.  
Give your answer correct to the nearest cent.

A large rectangular grid of graph paper, consisting of 20 columns and 20 rows of small squares, intended for working out the solution to the problem.

## Question 4

### Question 1

(25 marks)

Eimear earns a gross wage of €40 000 per annum with Company A.

- (a) Eimear pays income tax at a rate of 20% on income up to the standard rate cut-off point of €35 300. She pays tax at a rate of 40% on the remainder. She has annual tax credits of €1650. Find how much income tax she pays per annum.

- (b) Eimear pays her health insurance which costs her €1500 net. Find her annual income after paying income tax and health insurance (i.e. her net annual income).

