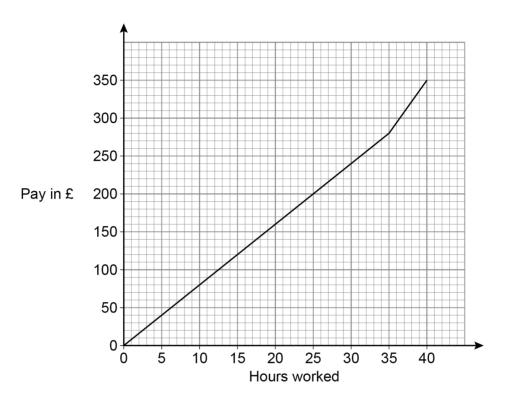
1 The graph shows how much Molly is paid for working for up to 40 hours.

She receives

a basic rate of pay for the first 35 hours worked a higher rate of pay for the next 5 hours worked.



Work out the difference between the higher rate of pay and the basic rate of pay. Give your answer in \pounds per hour.

Basic:
$$\frac{£280}{35h}$$
 = £8 per hour (1)

[3 marks]

Higher:
$$\frac{f(350-280)}{5h} = \frac{f}{5h} = f | \text{| per hour}$$

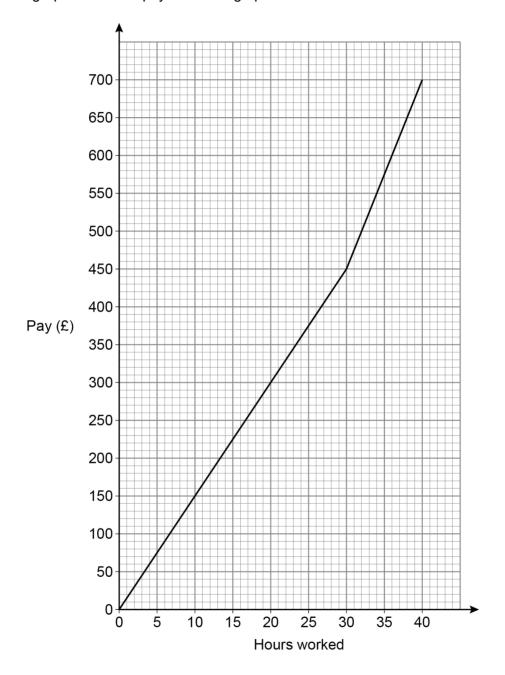
Answer £



per hour

2 In a week, Samir is paid
a basic hourly rate for the first 30 hours worked
an overtime hourly rate for any extra hours worked.

The graph shows his pay for working up to 40 hours in a week.



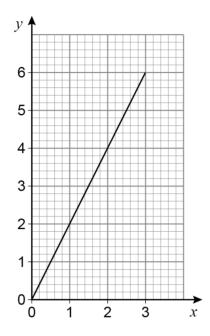
Work out the ratio basic hourly rate : overtime hourly rate Give your answer in its simplest form.

[3 marks]

Basic hourly rate =
$$\frac{450}{30}$$
 = 15 (1)

Overtime hourly rate =
$$\frac{(100-450)}{40-30} = \frac{250}{10} = 25$$

Craig wants to draw a graph, for values of x from -3 to 3, where the x-coordinate and y-coordinate are always in the ratio 2:1 Here is his graph.



Make two criticisms of Craig's graph.

[2 marks]

Criticism 1

The graph starts from x=0, not x=-3

3	(
	(1)

Criticism 2

The graph is y = 2x, not $y = \frac{1}{2}x$

4 Draw the graph of $y = 1 - \frac{1}{2}x$ for values of x from -2 to 4

[3 marks]

χ	~2	-1	0	ı	2	3	4	
و	2	1.5	1	0.5	O	~0.5	~	



