

Topic test 1 (20 minutes)

Equations - Foundation

1 (a)	Solve	$\frac{x}{10} = 5$		[1 mark]
1 (b)	Solve	2 <i>y</i> – 9 = 18	x =	[2 marks]
1 (c)	Solve	4w + 3 = 20 - 6w	<i>y</i> =	[3 marks]
			w =	

2 A shop gives reward points based on the money in £ spent by a customer. It uses this formula.

reward points = $2 \times$ money spent + bonus

The bonus is worked out using this table.

Money spent (to the nearest £)	1 to 20	21 to 50	50 to 100	More than 100	
Bonus	5	10	20	25	

2 (a) Amy spent £34

Work out her reward points.

Answer **2 (b)** Bob was given 220 reward points. How much, to the nearest £, did he spend? [2 marks] Answer £

[2 marks]

3	An expression for the <i>n</i> th term of a sequence is $n^2 + 2$		
	Write down the first three terms of the sequence.	[3 marks]	
	Answer , , ,		
4	Liam and Kyle share their energy bills equally. Their electricity bill is $\pounds x$		
	Their gas bill is £24 more than their electricity bill.		
	Nork out the cost of the electricity bill and the cost of the cas bill		
	work out the cost of the electricity bin and the cost of the gas bin.	[4 marks]	
	Electricity £		
	Gas £		

5	Solve	$\frac{6x+7}{5} = 2x - 4$			[3 marks]

x = _____