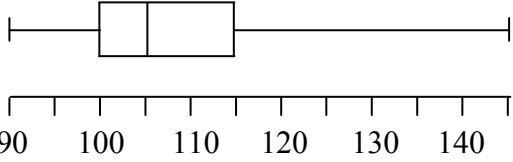


Qu	Give one mark for each •	Illustration for awarding mark
1a	ans: 72° 2 marks <ul style="list-style-type: none"> •¹ makes fraction and multiplies •² answer 	<ul style="list-style-type: none"> •¹ $240/1200 \times 360^\circ$ •² 72°
b	ans: 200 pupils 2 marks <ul style="list-style-type: none"> •¹ makes fraction and multiplies •² answer 	<ul style="list-style-type: none"> •¹ $60/360 \times 1200$ •² 200 pupils
2	ans : $4x - x^2$ 3 marks <ul style="list-style-type: none"> •¹ breaks bracket •² starts to simplify •³ completes simplification 	<ul style="list-style-type: none"> •¹ - $6x^2 + 10x$..... •² $4x$... •³ - x^2
3a	ans : £189 4 marks <ul style="list-style-type: none"> •¹ knows to add cost of loan •² answer •³ knows to divide by number of payments •⁴ answer 	<ul style="list-style-type: none"> •¹ $\pounds 1200 + \pounds 312$ •² $\pounds 1512$ •³ $\pounds 1512 \div 8$ •⁴ $\pounds 189$
b	ans: £207.90 2 marks <ul style="list-style-type: none"> •¹ finds 10% of payment •² finds new payment by adding 	<ul style="list-style-type: none"> •¹ 10% of $\pounds 189 = \pounds 18.90$ •² $\pounds 189 + \pounds 18.90 = \pounds 207.90$
4	ans : box-plot 4 marks <ul style="list-style-type: none"> •¹ orders data •² finds min, max, median •³ find Q1, Q3 •⁴ draws boxplot with appropriate scale 	<ul style="list-style-type: none"> •¹ 90, 95, 100, 100, 130, 145 •² 90, 145, 105 •³ 100, 115 •⁴ 
5	ans : $(3x - 2y)(3x + 2y)$ 1 mark <ul style="list-style-type: none"> •¹ factorises correctly 	<ul style="list-style-type: none"> •¹ $(3x - 2y)(3x + 2y)$
6	ans: D 2 marks <ul style="list-style-type: none"> •¹ rearranges to $y = mx + c$ •² answer 	<ul style="list-style-type: none"> •¹ $y = -\frac{3}{2}x + 4$ •² D

Qu	Give one mark for each •	Illustration for awarding mark
7	ans : head and even number 2 marks <ul style="list-style-type: none"> •¹ correct option chosen •² valid reason 	<ul style="list-style-type: none"> •¹ head and even number •² more possible outcomes with even number
8	ans : 150° 4 marks <ul style="list-style-type: none"> •¹ substitutes relevant values in formula •² rearranges to find sinABC •³ correct acute angle •⁴ correct obtuse angle 	<ul style="list-style-type: none"> •¹ $20 = \frac{1}{2} \times 8 \times 10 \times \sin ABC$ •² $\sin ABC = \frac{1}{2}$ •³ 30° •⁴ 150°
9a	ans : Darius 1 mark <ul style="list-style-type: none"> •¹ interprets tree diagram correctly 	<ul style="list-style-type: none"> •¹ Darius
b	ans: correct drawing 3 marks <ul style="list-style-type: none"> •¹ body correct •² head correct •³ correct number of legs 	<ul style="list-style-type: none"> •¹ triangular body •² round head •³ 4 legs
		Total: 30marks