
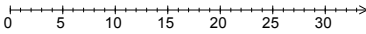


Qu	Give one mark for each •	Illustration for awarding mark
1	<p>ans: $y = x + 3$ 3 marks</p> <ul style="list-style-type: none"> •¹ finds gradient •² finds y - intercept •³ states equation 	<ul style="list-style-type: none"> •¹ $m = 1$ •² $c = 3$ •³ $y = x + 3$
2a	<p>ans : stem and leaf drawn 3 marks</p> <ul style="list-style-type: none"> •¹ stem correct •² ordered leaf •³ key and n shown 	<ul style="list-style-type: none"> •¹ $\begin{array}{c cccccccc} 0 & 6 \\ 1 & 0 & 1 & 4 & 5 & 6 & 6 & 7 & 7 & 8 & 9 \\ 2 & 1 & 1 & 2 & 3 & 5 & 6 & 7 & 9 \\ 3 & 1 & 2 \\ \hline n = 21 & & & & & & & & & & & 3 1 = 31 \end{array}$ •² •³
b	<p>ans: 15.5, 19, 25.5 3 marks</p> <ul style="list-style-type: none"> •¹ states lower quartile •² states median •³ states upper quartile 	<ul style="list-style-type: none"> •¹ 15.5 •² 19 •³ 25.5
c	<p>ans: 5 2 marks</p> <ul style="list-style-type: none"> •¹ uses formula(stated of implied) •² answer 	<ul style="list-style-type: none"> •¹ $(25.5 - 15.5) / 2$ •² 5
d	<p>ans: 2 marks</p> <ul style="list-style-type: none"> •¹ correct construction of box plot •² positioned on evenly distributed scale bar 	 
3a	<p>ans : £2080 2 marks</p> <ul style="list-style-type: none"> •¹ knows to add •² answer 	<ul style="list-style-type: none"> •¹ $£1575 + 12 + 58 + 310 + 125$ •² £2080
b	<p>ans: £1520 1 mark</p> <ul style="list-style-type: none"> •¹ subtracts to answer 	<ul style="list-style-type: none"> •¹ $£3600 - 2080 = £1520$
c	<p>ans: £520 2 marks</p> <ul style="list-style-type: none"> •¹ knows to find 25% •² answer 	<ul style="list-style-type: none"> •¹ 25% of 2080 •² £520
4a	<p>ans: $3x^2 - 5x - 2$ 1 mark</p> <ul style="list-style-type: none"> •¹ correct multiplication of brackets 	<ul style="list-style-type: none"> •¹ $(3x^2 - 5x - 2)$
b	<p>ans: $(x + 2)(x + 1)$ 4 marks</p> <ul style="list-style-type: none"> •¹ substitutes answer from part (a) (in brackets) •² completes simplification •³ one factor correct •⁴ second factor correct 	<ul style="list-style-type: none"> •¹ $4x^2 - (3x^2 - 5x - 2) - 2x$ •² $x^2 + 3x + 2$ •³ $(x + 2).....$ •⁴ $.....(x + 1)$
5	<p>ans : £345 3 marks</p> <ul style="list-style-type: none"> •¹ knows to find basic wage •² calculates bonus •³ finds total wage 	<ul style="list-style-type: none"> •¹ $30 \times £6.50 = £195$ •² $200 \times 75p = £150$ •³ $£195 + 75 = £345$

6	ans : 8cm	4 marks	
	<ul style="list-style-type: none"> •¹ knows that $\angle ORQ$ is right angled •² assembles facts in right-angled triangle •³ knows to use Pythagoras •⁴ answer 		<ul style="list-style-type: none"> •¹ stated or shown in a diagram •² diagram - •³ $RQ^2 = 10^2 - 6^2$ •⁴ 8 cm
7	ans : £230	2 marks	
	<ul style="list-style-type: none"> •¹ knows to find total cost •² divides to answer 		<ul style="list-style-type: none"> •¹ $\pounds 6000 + 900 = \pounds 6900$ •² $\pounds 6900 \div 30 = \pounds 230$
			Total 32 marks