

Marking Instructions for General Level Prelim 2006 -2007 - Paper 1

	Give 1 mark for each •	Illustrations for awarding each mark
<p>1.(a) • carry out calculation correctly</p> <p>1.(b) • carry out calculation correctly</p> <p>1.(c) • carry out calculation correctly</p> <p>1.(d) • knowing how to find 40%</p> <p>• carry out calculation correctly</p>		<ul style="list-style-type: none"> • 7.75 • 0.256 • 106800 • 10% of £42 = £4.20 • £4.20 × 4 = £16.80 <p align="right">5 marks KU</p>
<p>2.</p> <ul style="list-style-type: none"> • know that gradient is negative • correctly calculate gradient (accept unsimplified answer) 		<ul style="list-style-type: none"> • $m = \frac{\text{vert}}{\text{horiz}} = -\frac{?}{?}$ • $m = -\frac{6}{4} = -\frac{3}{2}$ <p align="right">2 marks KU</p>
<p>3.(a)</p> <ul style="list-style-type: none"> • one correct entry • further two correct entries <p>3.(b)</p> <ul style="list-style-type: none"> • & • correct formula stated <p>3.(c)</p> <p>(i)</p> <ul style="list-style-type: none"> • know how to find no. of vertical posts <p>(ii)</p> <ul style="list-style-type: none"> • substitute into formula • carry out calculation correctly 		<ul style="list-style-type: none"> • 4 • 12 & 16 <p align="right">2 marks RE</p> <ul style="list-style-type: none"> • & • $b = 4v - 4$ <p align="right">2 marks RE</p> <ul style="list-style-type: none"> • $240 \div 8 + 1 = 31$ • $b = 4(31) - 4$ • $b = 120$ <p align="right">3 marks RE</p>
<p>4.</p> <ul style="list-style-type: none"> • know $1 < a < 10$ • state correct answer 		<ul style="list-style-type: none"> • 4.31 • 10^8 <p align="right">2 marks KU</p>

	Give 1 mark for each •	Illustrations for awarding each mark
5.(a)	<ul style="list-style-type: none"> calculates total states probability (accept unsimplified answer) 	<ul style="list-style-type: none"> $\frac{\quad}{80}$ $\frac{24}{80} = \frac{3}{10}$ <p style="text-align: right;">2 marks KU</p>
5.(b)	<ul style="list-style-type: none"> calculates new total states probability (accept unsimplified answer) 	<ul style="list-style-type: none"> $\frac{76}{76} = \frac{9}{38}$ <p style="text-align: right;">2 marks RE</p>
6.(a)	<ul style="list-style-type: none"> stem correct leaf correct key stated 	<pre> 4 9 5 5 7 6 2 2 2 7 7 7 8 8 9 8 3 4 9 5 8 n = 15, 4/9 = 4.9 </pre>
6.(b)	<ul style="list-style-type: none"> answer 	<ul style="list-style-type: none"> Modal score = 6.2 <p style="text-align: right;">3 marks KU</p>
6.(c)	<ul style="list-style-type: none"> answer 	<ul style="list-style-type: none"> Median score = 7.7 <p style="text-align: right;">2 marks KU</p>
7.	<ul style="list-style-type: none"> horizontal lines drawn correctly one set of diagonal lines drawn correctly second set of diagonal lines drawn correctly 	<p style="text-align: right;">3 marks RE</p>

Marking Instructions for General Level Prelim 2006- 2007 - Paper 1 (cont.)

Give 1 mark for each •	Illustrations for awarding each mark
<p>8.</p> <ul style="list-style-type: none"> • correct strategy • find total time for Mrs Fit • know how to add time correctly • correct calculations 	<ul style="list-style-type: none"> • 3h 46mins + 47 mins • 4h 33 mins • 1225h + 4h 33 mins • 1658 <p align="right">4 marks RE</p>

Total marks : KU 16

RE 16

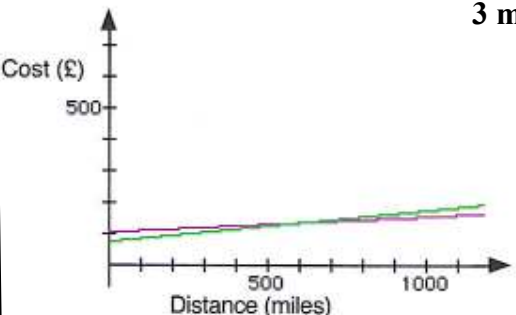
Marking Instructions for General Level Prelim 2006-2007 - Paper II

	Give 1 mark for each •	Illustrations for awarding each mark
1.	<ul style="list-style-type: none"> • calculates amount saved • strategy for calculating extra • correctly calculating extra • answer 	<ul style="list-style-type: none"> • $8 \times 12 = 96$ • 0.14×96 • £13.44 • $96 + 13.44 = \mathbf{\pounds 109.44}$ <p align="right">4 marks KU</p>
2.	<ul style="list-style-type: none"> • correct strategy • attempts to calculate total cost • correctly calculates cost • converts to £ • conclusion 	<ul style="list-style-type: none"> • 3 adults + 1 child • $3(124 + 70 + 80 + 59 + 130) + 103 + 57 + 57 + 50 + 100$ • \$1756 • $1756 \div 1.859 = \pounds 944.59$ • OR $1000 \times 1.859 = \\$1859$ • Yes + suitable statement <p align="right">5 marks RE</p>
3.	<ul style="list-style-type: none"> • correct strategy (sohcahtoa) • choose correct ratio • correctly uses ratio • answer 	<ul style="list-style-type: none"> • $\cos = \frac{A}{H}$ • $\cos x = \frac{1.3}{2.2}$ • $x = \cos^{-1}\left(\frac{1.3}{2.2}\right)$ • 53.8° <p align="right">4 marks KU</p>

Marking Instructions for General Level Prelim 2006-2007 - Paper II (cont)

	Give 1 mark for each •	Illustrations for awarding each mark
4.(a)	<ul style="list-style-type: none"> • correct common factor • bracket 	<ul style="list-style-type: none"> • $6\dots$ • $\dots(2x - 3y)$ <p align="right">2 marks KU</p>
4.(b)	<ul style="list-style-type: none"> • break bracket • collect like terms • solve equation 	<ul style="list-style-type: none"> • $6x - 9 = 81$ • $6x = 90$ • $x = 15$ <p align="right">3 marks KU</p>
5.	<ul style="list-style-type: none"> • identifies right angled triangle • knows to use Pythagoras Theorem • knows to calculate smaller side • rounds to one decimal place 	<ul style="list-style-type: none"> • $OC^2 = OB^2 + BC^2$ • $7 \cdot 9^2 = 3 \cdot 2^2 + BC^2$ • $BC^2 = 52 \cdot 17$ • $BC = 7.2\text{cm}$ <p align="right">4 marks KU</p>
6.	<ul style="list-style-type: none"> • correct strategy • calculate actual length • calculate total length • conclusion 	<ul style="list-style-type: none"> • $S.F. = \frac{2 \cdot 52}{1 \cdot 05} = 2 \cdot 4$ • $2 \cdot 4 \times 1 \cdot 45 = 3 \cdot 48 \text{ m}$ • $3 \cdot 48 \times 4 = 13 \cdot 92 \text{ m}$ • Yes, with 8cm to spare. <p align="right">4 marks RE</p>
7.	<ul style="list-style-type: none"> • uses correct radius • finds volume of cylinder • finds volume of cube • uses appropriate strategy • gives answer as a whole number 	<ul style="list-style-type: none"> • $r = 10\text{cm}$ (could be in formula) • $V = \pi \times 10^2 \times 30 = 9420\text{cm}^3$ (using 3.14) • $V = 5 \times 5 \times 5 = 125\text{cm}^3$ • $942 \div 125 = 75.36$ • 75 complete candle cubes <p align="right">5 marks RE</p>

Marking Instructions for General Level Prelim 2006-2007 - Paper II

<p align="center">Give 1 mark for each •</p>	<p align="center">Illustrations for awarding each mark</p>
<p>8.(a) • interprets information correctly</p> <ul style="list-style-type: none"> • one row correct • second row correct <p>8.(b) • line drawn for Lottomiles</p> <ul style="list-style-type: none"> • line drawn for Close2home <p>8.(c) • correct strategy</p> <ul style="list-style-type: none"> • conclusion 	<ul style="list-style-type: none"> • evidence of calculations • 115 125 135 145 155 • 95 115 135 155 175 <p align="right">3 marks KU</p>  <p align="right">2 marks KU</p> <ul style="list-style-type: none"> • $150 \times 7 = 1050$ miles • Close2Home – cheaper if distance > 600 <p align="right">2 marks RE</p>
<p>9.(a) • follow strategy</p> <ul style="list-style-type: none"> • correct calculations <p>9.(b) • create an equation</p> <ul style="list-style-type: none"> • attempt to solve equation • correctly solves equation 	<ul style="list-style-type: none"> • $2(5) \times 3^2$ • $10 \times 9 = 90$ <p align="right">2 marks KU</p> <ul style="list-style-type: none"> • $2(x) \times 3^2 = 54$ • $18x = 54$ • $x = 3$ <p align="right">3 marks RE</p>
<p>10. • calculates time for Sam</p> <ul style="list-style-type: none"> • convert time <p>• calculates time for Leah</p> <ul style="list-style-type: none"> • convert time • conclusion 	<ul style="list-style-type: none"> • $T_s = \frac{12}{6.4} = 1.875$ hours • $T = 1$ hour 52mins 30 secs • $T_L = \frac{9.5}{5} = 1.9$ hours • $T = 1$ hour 54 minutes • Sam finished 1min 30 secs ahead <p align="right">5 marks RE</p> <p align="center">Total marks: KU 24 RE 24</p>