

N5 Apps Practice Paper A Paper 2 Marking Scheme

1	<ul style="list-style-type: none"> ●¹ Find multiplier ●² Find amount after 3 years ●³ Find second multiplier ●⁴ Find amount after 5 years ●⁵ Rounded ●¹ Find profit ●² Find percentage 	<ul style="list-style-type: none"> ●¹ 1.03 ●² $78000 \times 1.03^3 = 85232.71$ ●³ 1.045 ●⁴ $197196.25 \times 1.045^2 = 93076.25$ ●⁵ £93000 ●¹ 31000 ●² 39.7% 	
2	<ul style="list-style-type: none"> ●¹ Find 5.5% ●² Add on interest ●³ Divide by number of months 	<ul style="list-style-type: none"> ●¹ 319 ●² $5800 + 319 = \text{£}6119$ ●³ £61.19 	
3	<ul style="list-style-type: none"> ●¹ Strategy ●² Multiply ●³ Add together 	<ul style="list-style-type: none"> ●¹ $135 / 5 = 27$ ●² $3 \times 27 + 7 \times 27 = 270$ ●³ $270 + 135 = \text{£}405$ 	
4	<ul style="list-style-type: none"> ●¹ Pythagoras ●² Find missing side ●³ Total perimeter ●¹ Number of rolls required ●² Find cost 	<ul style="list-style-type: none"> ●¹ Evidence of Pythagoras ●² 5m ●³ $4 + 5 + 5 + 8 = 22\text{m}$ ●¹ 4 rolls ●² $4 \times 12.40 = \text{£}49.60$ 	
5	<ul style="list-style-type: none"> ●¹ Form table ●² Correct calculations ●³ Most stated 	<ul style="list-style-type: none"> ●¹ ●² ●³ 3000 boxes 	
6	<ul style="list-style-type: none"> ●¹ Strategy ●² Find price per L or 100 ml etc. ●³ Statement 	<ul style="list-style-type: none"> ●¹ 6.20×2 or $19.10 / 3.2$ or equivalent ●² 500ml £6.70 for 1L, 3.2L £5.97 ●³ The 3.2L is the better deal because it is 73p cheaper per litre. 	
7	<ul style="list-style-type: none"> ●¹ Write as a fraction ●² Find how many 	<ul style="list-style-type: none"> ●¹ 30/90 ●² 33.3% 	

	<ul style="list-style-type: none"> ●¹ One statement ●² Second statement <ul style="list-style-type: none"> ●¹ State probabilities ●² Make comparable ●³ State probabilities 	<ul style="list-style-type: none"> ●¹ Same proportion of people ordering tea ●² In both shops coffee was the biggest seller and hot chocolate was the lowest *Other statements acceptable <ul style="list-style-type: none"> ●¹ 42/90 and 150/360 ●² 42/90 and 37.5/90 ●³ The shop in Glasgow has a higher probability of the next customer order a coffee. 	
8	<ul style="list-style-type: none"> ●¹ Find Median ●² Find $(x - \underline{x})^2$ ●³ Formula ●⁴ State median Q1 and Q3 <ul style="list-style-type: none"> ●¹ Compare Averages ●² Compare Standard Deviation 	<ul style="list-style-type: none"> ●¹ 35 ●² 121,81,100,64,9,400,1,196 ●³ $\sqrt{\frac{972}{7}}$ ●⁴ 11.8 <ul style="list-style-type: none"> ●¹ On average most customers visited the shop on Monday that Tuesday ●² There was less variation in the number of shops on Tuesday than Monday 	
9	<ul style="list-style-type: none"> ●¹ Find wage <ul style="list-style-type: none"> ●¹ Find pensions ●² Find total deductions ●³ Take home pay <ul style="list-style-type: none"> ●¹ Add up expenses ●² Subtract Expenses 	<ul style="list-style-type: none"> ●¹ 9.70 x 180 = 1746 <ul style="list-style-type: none"> ●¹ 174.60 ●² £763 ●³ £938 <ul style="list-style-type: none"> ●¹ £600 ●² £338 	

10	<p>ans: 3000 Canadian Dollars, £1900, 48%</p> <ul style="list-style-type: none"> •¹ US dollars calculated •² Spent in US •³ Subtracts •⁴ Change into Canadian Dollars •⁵ Finds amount of Canadian Dollars left •⁶ Round to nearest thousand <ul style="list-style-type: none"> •¹ Convert back <ul style="list-style-type: none"> •¹ Find percentage 	<ul style="list-style-type: none"> •¹ $4000 \times 1.85 = 7400$ •² $350 \times 7 = 2450$ •³ $7400 - 2450 = 4950$ •⁴ $4950 \times 0.85 = 4207.50$ •⁵ $4207.50 - (4 \times 290) = 3047.50$ •⁶ 3000 Canadian Dollars <ul style="list-style-type: none"> •¹ $(3000 / 0.85) / 1.85 = 1900$ <ul style="list-style-type: none"> •¹ $1900 / 4000 \times 100 = 52\%$ 							
11	<ul style="list-style-type: none"> •¹ Add up •² Find the angles of each <ul style="list-style-type: none"> •³ Construct Pie Chart 	<ul style="list-style-type: none"> •¹ $435 + 180 + 105 = 720$ •² <table border="1" data-bbox="855 913 1268 1095"> <tr> <td>UK</td> <td>$436 / 720 \times 360 = 218$</td> </tr> <tr> <td>Europe</td> <td>90</td> </tr> <tr> <td>America</td> <td>52</td> </tr> </table> <ul style="list-style-type: none"> •³ Diagram drawn 	UK	$436 / 720 \times 360 = 218$	Europe	90	America	52	
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12	<ul style="list-style-type: none"> •¹ 10cm line drawn •² Measure angle correctly •³ 7cm line drawn correctly •⁴ Measure angle correctly <ul style="list-style-type: none"> •¹ Find height in cm •² Convert to real life <ul style="list-style-type: none"> •¹ State time in hours •² find one speed •³ find second speed •⁴ find mean of two speeds 	<ul style="list-style-type: none"> •¹ See diagram •² See Diagram •³ See diagram •⁴ See diagram <ul style="list-style-type: none"> •¹ $\approx 8.8\text{cm}$ •² 177 miles <ul style="list-style-type: none"> •¹ 1.25hours •² $200 / 1.25 = 160$ hours •³ $140 / 1.25 = 112$ hours •⁴ $160 + 112 = 272, 272 / 2 = 136\text{mph}$ 							

