

Q1. The table shows some information about six cars.

Make of car	Age (years)	Number of doors	Engine size (litres)
BMW	7	4	2.2
Ford	5	3	1.4
Mazda	8	4	1.8
Skoda	5	5	1.4
Rover	8	5	1.4
Volvo	9	2	2.4

One of these cars has an engine size of 2.4 litres.

(a) Write down the make of this car.

.....

(1)

One of these cars is 8 years old and has 4 doors.

(b) Write down the make of this car.

.....

(1)
(Total 2 marks)

##

Nick has 6 coins.
Each coin comes from a different country.
Here is some information about these coins.

Coin	Country	Shape	Weight (g)
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20 pence	United Kingdom	7-sided	5
500 yen	Japan	circular	7
10 centime	Switzerland	circular	3
1 dollar	Canada	11-sided	7
2 rupee	India	11-sided	6
5 cent	United States	circular	5

(a) Which coin comes from Switzerland?

.....

(1)

(b) Which coin has the same weight as the 500 yen coin?

.....

(1)

(Total 2 marks)

Q3. The table shows some information about 4 cars for sale.

Type of car	Number of doors	Number of previous owners	Cost in £
Saloon	4	0	17 200
Coupé	3	2	12 500
Sports	2	3	14 950
Estate	5	2	11 300

(a) How many doors does the Coupé have?

.....

(1)

(b) Which type of car costs less than £12 000?

.....

(1)

Simon picks a car at random.

(c) Write down the probability that Simon will pick a car with exactly two previous owners.

.....

(2)

(Total 4 marks)

Q4. The table gives information about the prices and the features of five mobile phones.

The ticks (✓) in the table show the features of each phone.

Mobile phone	Price	Feature			
		Camera	MP3	FM Radio	Video
Astra	£24.97	✓			
Crystal	£24.97	✓			✓
Pixar	£39.97	✓	✓	✓	
Spark	£34.23	✓		✓	✓
Tacco	£34.97	✓	✓	✓	✓

(a) Which of the five mobile phones is the most expensive?

.....

(1)

(b) Which of the mobile phones have MP3?

.....

(1)

(c) Which mobile phone has Video but **not** FM Radio?

.....

(1)

Mirza has a monthly plan for his mobile phone.

Each month, he pays a total of £9.79 plus the cost of any extra minutes.

Monthly Plan

For **£9.79** per month you get:

100 minutes and unlimited texts.

Extra minutes: 24.5p each

Last month, Mirza used 112 minutes.

(d) Work out how much he paid in total last month.

£

(4)
(Total 7 marks)

- Q5.** Harry and Edith are planning their holiday.
They want to travel by airplane.
They can travel with one of three airplane companies, Aireways, King Lingus or Easy Plane.
The tables show the cost per adult and the cost per child to travel with each airplane company.

Aireways									
		July				August			
Week		1 – 8	9 – 15	16 – 22	23 – 31	1 – 12	13 – 19	20 – 26	27 – 31
Adult	AM	£197	£200	£215	£215	£224	£209	£199	£188
	PM	£174	£177	£192	£192	£201	£186	£176	£165
Child	AM	£110	£113	£128	£128	£137	£122	£112	£101
	PM	£87	£90	£105	£105	£114	£99	£89	£78

King Lingus									
		July				August			
Week		1 – 8	9 – 15	16 – 22	23 – 31	1 – 12	13 – 19	20 – 26	27 – 31
Adult	AM	£193	£195	£197	£211	£220	£213	£208	£204
	PM	£176	£178	£180	£191	£203	£196	£191	£187

Child	AM	£119	£121	£123	£134	£146	£139	£134	£130
	PM	£102	£104	£106	£117	£129	£122	£117	£113

Easy Plane									
		July				August			
Week		1 – 8	9 – 15	16 – 22	23 – 31	1 – 12	13 – 19	20 – 26	27 – 31
Adult	AM	£198	£206	£213	£223	£232	£214	£210	£205
	PM	£181	£189	£196	£206	£215	£197	£193	£188
Child	AM	£94	£102	£109	£119	£128	£110	£106	£101
	PM	£77	£85	£92	£102	£111	£93	£89	£84

Harry and Edith have 3 children.
They want to travel on the morning of 27th July.

Work out the cheapest cost.

.....

(Total 6 marks)

M1.

	Answer	Mark	Additional Guidance
(a)	Volvo	1	B1 cao
(b)	Mazda	1	B1 cao
Total for Question: 2 marks			

M2.

	Answer	Mark	Additional Guidance
(a)	10 centime	1	B1 for 10 centime or centime
(b)	1 dollar	1	B1 for 1 dollar or dollar
Total for Question: 2 marks			

M3.

	Answer	Mark	Additional Guidance
(a)	3	1	B1 cao
(b)	Estate	1	B1 cao

(c)	$\frac{2}{4}$ oe	2	M1 for a fraction with a denominator of 4 or numerator of 2 $\frac{2}{4}$ A1 for $\frac{2}{4}$ oe (accept 0.5 or 50%) SC B1 for 2 out of 4 or 1 out of 2 B0 for 1 : 2 or 2 : 4 or 4 : 2 etc
Total for Question: 4 marks			

M4.

	Answer	Mark	Additional Guidance
(a)	Pixar	1	B1 cao
(b)	Pixar, Tacco	1	B1 cao
(c)	Crystal	1	B1 cao
(d)	12.73	4	M1 for 112-100 or 12 seen M1 for $24.5 \times '12'$ or sight of digits 294. Do not allow '12' to be 100. M1 (dep on one prior M1) for $9.79 + '2.94'$ A1 cao
Total for Question: 7 marks			

M5.

	Working	Answer	Mark	Additional Guidance
QWC	$2(215) + 3(128) = 814$	Easy	6	M1 for $2 \times \text{Adult} + 3 \times \text{Child}$

(i, ii,	$2(211) + 3(134) = 824$	Plane	M1 for using correct Adult and Child, i.e. (215, 128) or (211, 134) or (223, 119) A2 for 814, 824 and 803 (A1 for one or two correct or for a correct $2 \times \text{'Adult'} + 3 \times \text{'Child'}$) B1 for correct units, i.e. £ or pounds C1 for Easy Plane identified QWC: Decision must be stated and total costs must be attributable
iii)	$2(223) + 3(119) = 803$		
FE		£803	
			Total for Question: 6 marks

E1. Parts (a) and (b) were done well by the vast majority of the candidates. A common but infrequent error for part (b) was Rover. A small number of candidates wrote the engine sizes the cars rather than the make of the cars.

E2. Nearly all candidates were successful in writing the required coin.

Again, nearly all the incorrect responses arose from not reading the question properly. As a result some candidates demonstrated that they knew which was the correct row that needed to be identified but they then went on to give the answer from the incorrect column. Thus the most popular incorrect answers of 'circular' in (a) and 'Canada' in (b) led to no marks being scored. Over 90% of the candidates scored both available marks.

E3. This question was well understood with 98% of candidates obtaining the correct answer for part (a) and 97% of candidates for part (b). In part (c) candidates were rewarded with 1 mark for probabilities with a denominator of 4 or a numerator of 2 or for writing the probability as 2 out of 4 or 1 out of 2. 66% of candidates gained 2 marks and 13% gained 1 mark. Common incorrect answers included $\frac{1}{4}$, $\frac{3}{4}$, $\frac{4}{7}$ and $\frac{2}{5}$. A small number of candidates appeared to not understand the question and gave answers such as "coupe" or "saloon".

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Parts (a), (b) and (c) of this question were well answered with many candidates scoring all three marks.

In part (d) candidates usually made an attempt at this question, very few were left blank. Even though the majority of candidates are likely to own a mobile phone, it was interesting to see how many produced monthly bills with no attempt made to correct the amount or check the calculation.

Of the candidates who attempted this question the majority gained 3 marks for the digits 294 + 9.79, however, very few candidates converted the 24.5p (or '2.94') to £s. Candidates were not using a calculator to work out the $24.5 \times '12'$ and so errors were often made when they were adding leading to erroneous answers of £2.94, £29.4, £294, £303.79 or £39.19 1.2.3