Numerical Reasoning
Practice Test 2

Question Booklet

Company	Company Annual Profit (£)	Cost to Buy Company (£)	Number of Employees
A	20,000	18,000	5
B	26,000	25,000	8
C	21,000	20,000	8
D	30,000	30,000	12

Q1 **Which company has the highest annual profit per employee?**

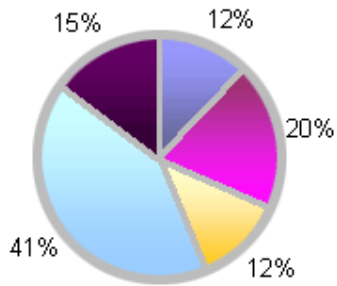A   B   C   D

Q2 **If the profits per employee remain the same, how many extra employees would Company B have to recruit to achieve annual profits of £39,000?**

6   3   12   4

Q3 **If an investor purchased Company B, and the profits for each company stayed the same, how much profit would the investor have made after two years?**
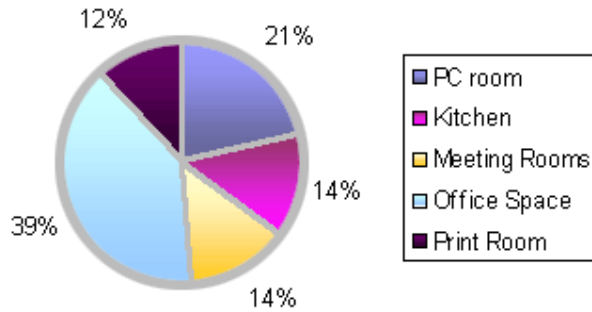
£27,000 Profit   £2,000 Loss
£2,700 Profit   £52,000 Profit

Building Energy Use 1990

15% 12% 20% 12% 41%

Total = 17,000kWh

Building Energy Use 2000

12% 21% 14% 14% 39%

Total = 15,000kWh

Legend:
- PC room
- Kitchen
- Meeting Rooms
- Office Space
- Print Room

Q4	Between 1990 and 2000, what was the increase in energy use for the PC Room, Meeting Rooms and Office Space combined?

50kWh   184kWh   188kWh   Cannot say

Q5	If the Building Energy Use today is 6% less than it was in 2000, by what percentage is today's Building Energy Use lower than that of 1990?

82.9%   17.1%   17.8%   Cannot say

Q6	Which space experienced the smallest reduction in kWh used between 1990 and 2000?

Office Space   Print Room   Meeting Rooms   PC Room

Sector	Male	Female
Voluntary Work	41,000	68,000
IT	121,000	107,000
Engineering	398,000	105,000
Legal Services	273,000	251,000
Healthcare	227,000	271,000
Business Services	186,000	124,000
Self Employed	45,000	62,000
Unemployed	52,000	43,000
Total	1,343,000	1,031,000

Q7 **Approximately what percentage of the people sampled are unemployed?**

7%   5%   6%   4%

Q8 **If it is predicted that the number of females employed in IT will rise by 10% every year, but the number of males stays the same, what percent of IT employees would be female after a three year period?**

54.1%   53.5%   85.0%   45.5%

Town		Aug	Sep	Oct	Nov	Average cost per accident (£)
Ribley	Number of Accidents	8	6	12	10	1,900
	Vehicles on Road*	85	76	79	81	
Wartop	Number of Accidents	14	18	4	20	3,200
	Vehicles on Road*	112	101	89	117	
Surren	Number of Accidents	6	20	9	21	1,050
	Vehicles on Road*	96	104	119	125	

*In Thousands

Q9 **What was the average accident cost per vehicle on the road in Ribley in November?**
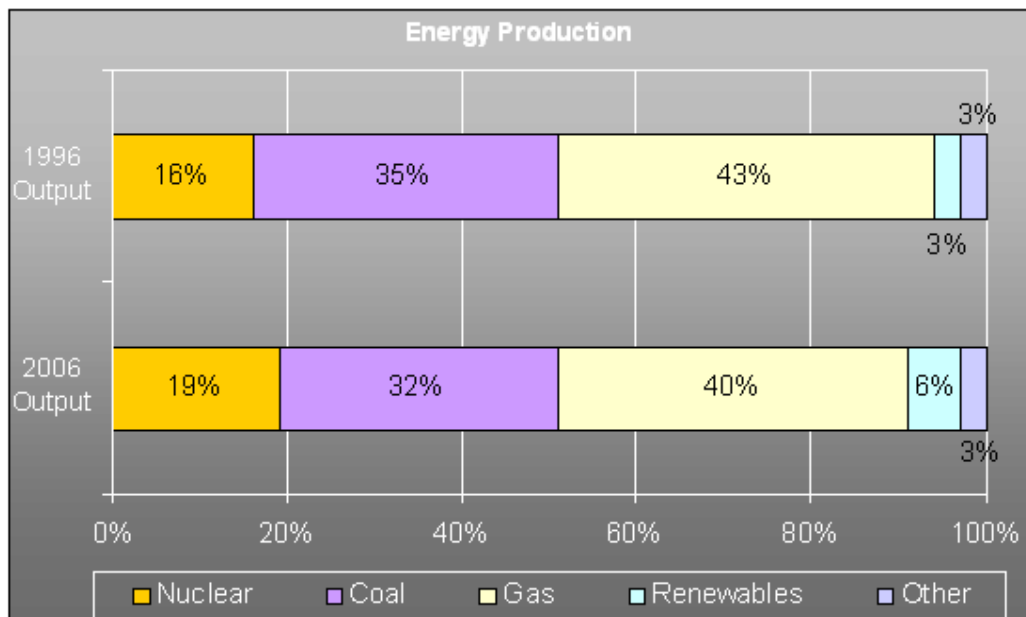
£0.23   £0.47   £15.40   £2.30

Q10 **Comparing Wartop with Surren, what was the difference in average accident cost per vehicle on the road in October?**

3.4p   6.4p   £64.60   £0.70

Q11 *The only towns in the County are Ridley, Wartop and Surren. What was the average accident cost per vehicle on the road in September for the County?*

£0.17   £0.32   £0.94   £20.50

Energy Production

1996 Output: Nuclear 16%, Coal 35%, Gas 43%, Renewables 3%
2006 Output: Nuclear 19%, Coal 32%, Gas 40%, Renewables 6%, Other 3%

| | Nuclear | Coal | Gas | Renewables | Other |

Q12 | **In 1996, total output of from all fuels was 200TWh. If output for Nuclear in 2006 was twice that for Coal in 1996, what was the output for Nuclear in 2006?**

140TWh   400TWh   64TWh   96TWh

Q13 | **If between 1996 and 2006, Renewables output doubled to 18TWh, approximately what was the Gas output in 1996?**

129TWh   86TWh   120TWh   110TWh

Q14 | **If total output was 200TWh in 1996 and 320TWh in 2006, what was Gas output in 2001?**

107TWh   133TWh   120TWh   Cannot say

Refund Data Report

Refund Cause	This Year (% of total refunds) Total number of refunds not given	Last Year (% of total refunds) Total number of refunds 912
Faulty Software	27	32
Faulty Hardware	48	41
Delivery Damage	9.5	8
False Advertisement	1.5	1
Customer Service	12	15
Other	2	3

Q15 This year saw a 20% increase in the total number of refunds over last year. Approximately how many refunds were issued this year due to Delivery Damage?

102   104   124   1040

Q16 The number of refunds last year due to Faulty Hardware was an increase of 15% above the year before last. Approximately how many complaints were received from Faulty Hardware in the year before last?

186   215   325   343

Q17 If the total number of refunds this year was 840, by what percentage did Faulty Hardware refunds increase between last year and this year?

7.8%   2.8%   79.1%   11.0%

	01 May 1995	
	UK Pounds Sterling (£)	US Dollars ($)
UK Pounds Sterling	1.00	1.74
US Dollar	0.57	1.00
Canadian Dollar	0.50	0.87
JP Yen	0.005	0.008
Euro	0.69	0.84
Russian Rubles	0.020	0.035

Q18 **What was the approximate value in Pounds Sterling of 150 Canadian Dollars in 1995?**

£55   £75   £130   £300

Q19 **Approximately How many Euros was 85 Russian Rubles worth in May 1995?**

€2.46   €2,933   €1,900   Cannot say

Q20 **How many more Canadian Dollars would 100 UK Pounds Sterling buy than would 120 US Dollars in May 1995?**

CAD$35   CAD$54   CAD$60   CAD$62

Mass Range (kg)	UK Number of cars (000)		France Number of cars (000)	
	1995	2000	1995	2000
0-499	4	9	6	11
500-999	21	32	56	89
1000-1499	292	341	346	491
1500-1999	420	495	510	586
2000-Unlimited	71	65	64	26

Q21 How many cars under 2,000kg were there in France in 1995?

918,000   918   408,000   737,000

Q22 What was the combined mass of all the cars in the UK in 2000?

211,000kg   858,500kg   1,426,500kg   Cannot Say

Q23 In the UK, what was the percentage increase in the total number of cars between 1995 and 2000?

15.0%   16.6%   32.1%   58.0%

Population Structure 1985

	Population at start of year (millions)	Live Births per 1000 population (Jan-Dec)	Deaths per 1000 population (Jan-Dec)	Percentage of population at start of year aged	
				under 15	60 or over
UK	56.6	13.3	11.8	19	21
France	55.2	13.9	10.0	21	19
Australia	46.5	8.0	6.5	19	17
Germany	61.0	9.6	11.5	15	20
Greece	28.5	13.2	7.8	21	18

Q24   **How many live births occurred in 1985 in Greece and Australia combined?**

21,200   748,200   1,051,000   Cannot say

Q25   **Which country had the highest number of people aged under 15 at the start of 1985?**
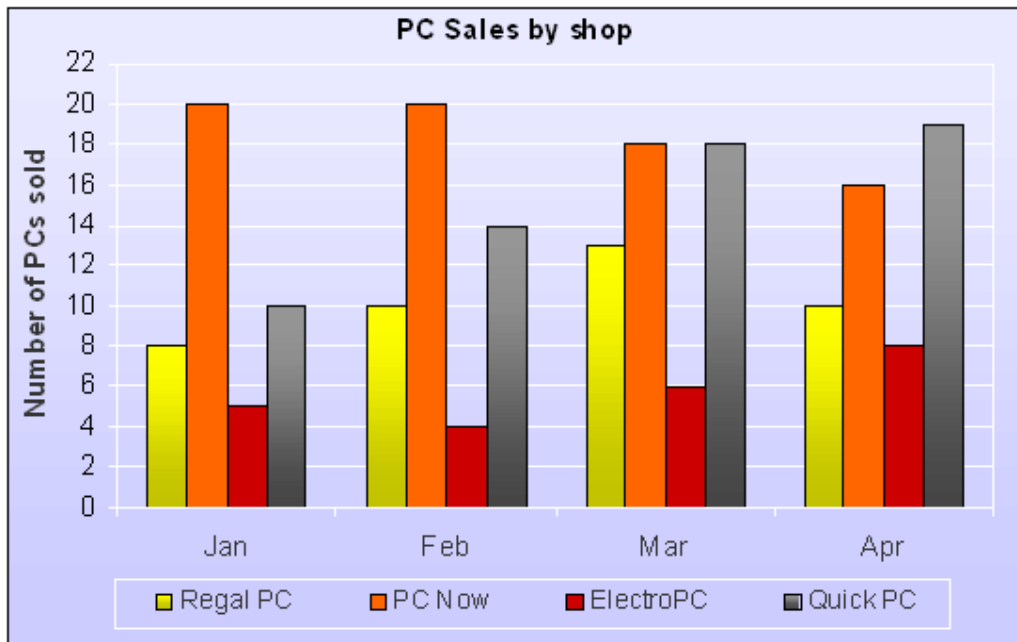
UK   France   Australia   Germany

Q26   **What was the net effect on the UK population in 1985?**

Increase of 84,900   Increase of 85,170
Decrease of 61,400   Increase of 542,810

Q27   **Approximately what percentage of the German population were aged 60 or over at the end of 1985?**

20%   21%   16%   Cannot say

PC Sales by shop

Q28 For all the shops combined, which month showed the largest decrease in number of PC sales over the previous month?

Feb   Mar   Apr   Cannot say

Q29 Approximately what percentage of Regal PC's sales were made in April?

21%   22%   24%   28%

Q30 If the average profit made on each PC sold by Quick PC was £62, what was the total profit over the four months for Quick PC?

£3,144   £3,782   £3,857   Cannot say

- End of Free Practice Test 2 -

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