

Minutes Remaining

47

Test Progress



Tunes Online Download Analysis

	Month				
Music Downloads Data	January	February	March	April	May
Sales Revenue (million Euros)	11	14	18.5	12	19
Number of downloads (millions)	22	27	32	26	40
Downloads during weekends	82%	94%	90%	87%	93%

Question 1

How many downloads would there be if there was a 5% decrease from May?

- ☐ 3,800,000
- ☐ 4,200,000
- ☐ 38,000,000
- ☐ 40,000,000
- ☐ 42,000,000

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Block

Help

Next

Block

Minutes Remaining

47

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Tunes Online Download Analysis

	Month				
Music Downloads Data	January	February	March	April	May
Sales Revenue (million Euros)	11	14	18.5	12	19
Number of downloads (millions)	22	27	32	26	40
Downloads during weekends	82%	94%	90%	87%	93%

Question 2

The December Sales Revenue was 9 million Euros.
Which month saw the greatest percentage increase in Sales Revenue?

- ☐ January
- ☐ February
- ☐ March
- ☐ April
- ☐ May

Block

Block

Help

Back Next

Block

Minutes Remaining

46

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Website Visitor Statistics				
Website	1st Time Visitors (000s)		Return Visitors (000s)	
	Saturday	Sunday	Saturday	Sunday
News	2.9	3.7	8.6	8.6
Sports	10.1	8.6	14.1	9.7
Shopping	6.7	6.9	12.2	12.4
Education	1.6	2.4	5.1	4.6
Property	3.4	3.5	6.7	6.3

Question 3

Approximately what percentage of total visitors to the Education website on Saturday were 1st time visitors?

☐ 30%☐ 33%☐ 46%☐ 53%☐ 58%

Block

Block

Help

Back

Next

Block

Minutes Remaining

46

Test Progress



Website Visitor Statistics				
Website	1st Time Visitors (000s)		Return Visitors (000s)	
	Saturday	Sunday	Saturday	Sunday
News	2.9	3.7	8.6	8.6
Sports	10.1	8.6	14.1	9.7
Shopping	6.7	6.9	12.2	12.4
Education	1.6	2.4	5.1	4.6
Property	3.4	3.5	6.7	6.3

Question 4

Each site receives 10p from sponsors for each 1st time visitor and 5p for each return visitor. On Sunday, how much money did the Shopping site receive from sponsors?

☐ £1,280☐ £1,290☐ £1,300☐ £1,310☐ £1,930

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Help

Back

Next

Block

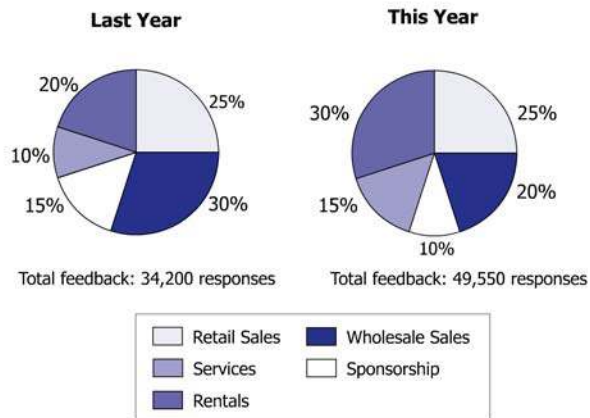
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46

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Ever Fabulous' Revenues (£s)



Total Revenue this year is £75,000

Question 5

If total revenue grows by 5% each year, approximately what will the total revenue be in 3 years' time?

☐ £76,875☐ £78,750☐ £82,688☐ £86,572☐ £86,822

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Help

Back

Next

Block

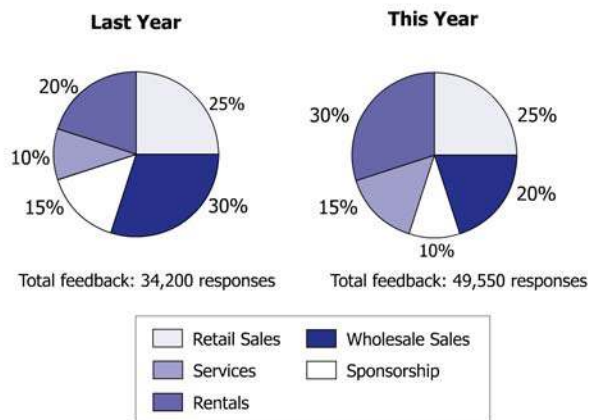
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46

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Ever Fabulous' Revenues (£s)



Total Revenue this year is £75,000

Question 6

If the total revenue this year is 0.5% lower than last year, how much revenue was made from Retail and Wholesale Sales last year?

- ☐ £37,690
- ☐ £41,040
- ☐ £41,270
- ☐ £41,460
- ☐ £43,420

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Block

Help

Back

Next

Block

Minutes Remaining

46

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**Purchase Credit Plan**

Amount Owning	Period of repayment	
	6 Months Monthly Repayments	12 Months Monthly Repayments
£250.00	£50.10	£27.50
£400.00	£75.80	£40.95
£600.00	£112.50	£59.60
£1,000.00	£180.65	£95.65

Question 7

How much more would a customer have to repay each month, over a six month period, for a table priced at £600 than a table priced at £250?

☐ £50.10☐ £52.40☐ £55.70☐ £58.30☐ £62.40

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Block

Help

Back

Next

Block

Minutes Remaining

45

Test Progress



Number of Sales Proposals Accepted or Rejected

Sales Region	Last Year		This Year	
	Accepted	Rejected	Accepted	Rejected
North West	150	58	174	132
South East	210	122	276	168

Question 8

Of the proposals written last year, what proportion were accepted?

- ☐ 1/2
- ☐ 2/3
- ☐ 4/5
- ☐ 7/8
- ☐ 11/12

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Help

Back

Next

Block

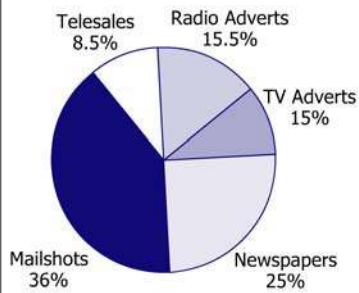
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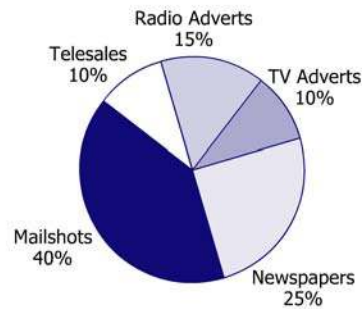
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**Sovereign Bathrooms**
Source of product enquiries

Last Year



This Year

**Question 9**

If newspapers generated 22,500 enquiries last year, how many enquiries did TV adverts produce that year?

- ☐ 7,650
- ☐ 8,437
- ☐ 11,210
- ☐ 13,500
- ☐ Cannot Say

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Help

Back

Next

Block

Minutes Remaining

45

Test Progress

**Link Electronics Annual Appraisal Data**
Regional Performance of Customer Service Staff

Level of Performance	Region 1	Region 2	Region 3	Region 4	Region 5
Poor	12	14	9	5	8
Acceptable	52	66	24	16	52
Good	136	120	67	79	90

Question 10

Approximately, what percentage of all 'Poor' performers work in Region 2?

☐ 26%☐ 27%☐ 28%☐ 29%☐ 30%

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Help

Back

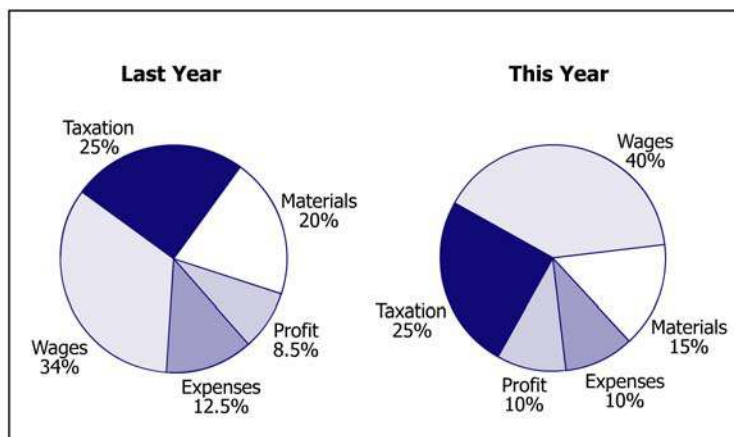
Next

Block

Minutes Remaining

45

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**Question 11**

If the tax bill for this year was £20,000 which was an increase of 25% from last year, how much was paid out on expenses last year?

- ☐ 3,000
- ☐ 5,000
- ☐ 8,000
- ☐ 10,000
- ☐ 12,000

Block

Block

Help

Back

Next

Block

Minutes Remaining

44

Test Progress

**Factory Output** (Components)

Levels of Quality	Factory 1	Factory 2	Factory 3	Factory 4	Factory 5
Low	9	12	6	3	8
Average	22	52	30	16	44
Good	69	136	64	81	98

Question 12

Which factory had the highest percentage of low quality products?

- ☐ Factory 1
- ☐ Factory 2
- ☐ Factory 3
- ☐ Factory 4
- ☐ Factory 5

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Help

Back

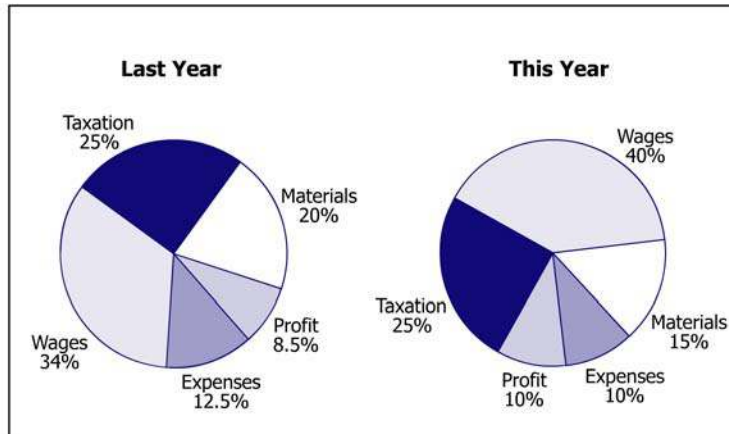
Next

Block

Minutes Remaining

44

Test Progress

**Question 13**

If the amount spent on materials last year was half that spent on wages this year when taxation accounted for £20,000, what was the wages bill for last year?

- ☐ 20,700
- ☐ 23,500
- ☐ 25,800
- ☐ 27,200
- ☐ 29,600

Block

Block

Help

Back

Next

Block

Minutes Remaining

44

Test Progress

**Degree Results** (By type of school attended)

Type of School	This Year		Last Year	
	Successful	Failed	Successful	Failed
Single Sex	235	36	210	30
Co-educational	300	45	290	45

Question 14

Among which group of degree students was there the highest success rate?

- ☐ Last Year co-educational
- ☐ This Year co-educational
- ☐ Last Year single sex
- ☐ This Year single sex
- ☐ Cannot say

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Block

Help

Back

Next

Block

Minutes Remaining

44

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**Annual Output of Production Plants**

	Saleable units produced/hour (excluding rejected units)	% units rejected during production	Total hours of operation during the year
Northern Plant	5,520	31%	5,845
Eastern Plant	2,976	38%	4,325
Western Plant	4,503	43%	5,840
Southern Plant	4,503	21%	2,895
Central Plant	5,025	25%	4,380

Question 15

Approximately how many units were rejected by the Northern Plant during production over the year?

☐ 10,100,000☐ 12,300,000☐ 14,500,000☐ 15,600,000☐ 17,800,000

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Help

Back

Next

Block

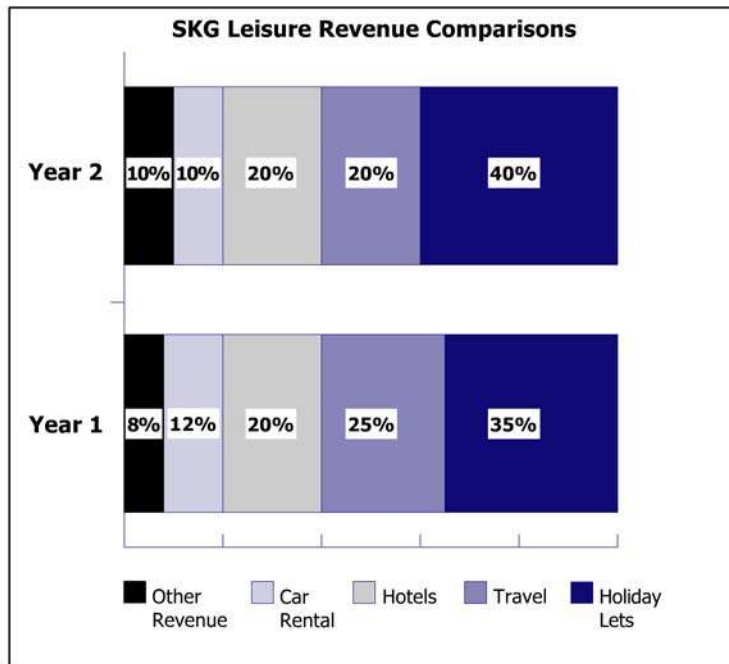
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43

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SKG Leisure Revenue Comparisons



Question 16

If the revenue for Car Rental in Year 1 was half that for Hotels in Year 2 when Holiday Lettings accounted for 5.04m Euros, what was the revenue from Hotels in Year 1?

- ☐ 0.84m
- ☐ 1.05m
- ☐ 1.26m
- ☐ 2.10m
- ☐ 2.52m

Block

Block

Help

Back

Next

Block

Minutes Remaining

43

Test Progress



Fossil Fuels Consumption (in million tonnes)						
Types of Fuel Consumption	Year 1		Year 2		Year 3	
	Country X	Country Y	Country X	Country Y	Country X	Country Y
Manufacturing	22	19	23	19	25	18
Electricity, Gas & Water	27	25	28	26	30	28
Transport & Communication	12	11	10	11	11	13
Domestic	26	28	24	23	24	21
Mining & Quarrying	4	4	4	3	3	4

Question 17

If the rate of change in Domestic fossil fuel consumption from Year 2 to Year 3 continues, approximately how much fossil fuel will be consumed by Domestic in Country Y in Year 6?

- ☐ 12 million tonnes
- ☐ 13 million tonnes
- ☐ 15 million tonnes
- ☐ 16 million tonnes
- ☐ 18 million tonnes

Block

Block

Help

Back

Next

Block

Minutes Remaining

43

Test Progress



Fossil Fuels Consumption (in million tonnes)						
Types of Fuel Consumption	Year 1		Year 2		Year 3	
	Country X	Country Y	Country X	Country Y	Country X	Country Y
Manufacturing	22	19	23	19	25	18
Electricity, Gas & Water	27	25	28	26	30	28
Transport & Communication	12	11	10	11	11	13
Domestic	26	28	24	23	24	21
Mining & Quarrying	4	4	4	3	3	4

Question 18

In Country Y, 60% of Domestic fossil fuel consumption is for heating in Year 3. If this drops by 25% in Year 4, how much fossil fuel would be used for heating if Domestic consumption in Year 4 is 22 million tonnes ?

- ☐ 5.5 million tonnes
- ☐ 9.9 million tonnes
- ☐ 12.1 million tonnes
- ☐ 13.2 million tonnes
- ☐ 16.5 million tonnes

Block

Block

Help

Back

Next

Block

Minutes Remaining

43

Test Progress



Excess International: Performance by Site					
	Site Location				
	Geneva	London	Munich	Paris	Rome
Performance Figures (in million Euros)					
Sales Revenue	109	533	495	385	254
Operating Costs	55	96	85	75	103
Payroll Costs	85	210	195	112	91
Waste - Known Loss	19	42	25	90	78
Shrinkage - Unknown Loss	7	21	17	10	52
Number of Employees (in Thousands)	0.9	4.5	3.8	2.9	1.5

Question 19

If the site that has the lowest paid employees gives its employees a 10% increase in salary, approximately what is the new average annual salary of these employees?

- ☐ 38,600 Euros
- ☐ 42,500 Euros
- ☐ 46,700 Euros
- ☐ 51,300 Euros
- ☐ 60,700 Euros

Block

Block

Help

Back Next

Block

Minutes Remaining

42

Test Progress



Excess International: Performance by Site					
	Site Location				
	Geneva	London	Munich	Paris	Rome
Performance Figures (in million Euros)					
Sales Revenue	109	533	495	385	254
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Waste - Known Loss	19	42	25	90	78
Shrinkage - Unknown Loss	7	21	17	10	52
Number of Employees (in Thousands)	0.9	4.5	3.8	2.9	1.5

Question 20

Next year, if Payroll Costs for Munich and Paris increase by 12% and those for the other countries increase by 5%, which site would have the second best revenue to costs ratio, if Operating Costs and Sales Revenue stay the same?

☐ Geneva

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☐ London

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☐ Munich

☐ Paris

☐ Rome

Help

Back

Next

Minutes Remaining

42

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Send2You Delivery Fuel Costs and Consumption

This Year

Fuel Costs and Consumption	January	February	March	April	May	June
Fuel Cost (£ per litre)	0.96	0.95	0.96	0.97	0.98	0.99
Litres purchased	720	860	795	845	870	835
Average Fuel Consumption (km/litre)	17	14.5	12.5	15	19	13.5

Notes: £1 = USD 2.01, 1 gallon = 4.5 litres

Question 21

If one employee drives 700km each month, which month would give the lowest fuel costs?

☐ January☐ February☐ March☐ April☐ May

Block

Block

Help

Back

Next

Block

Minutes Remaining

42

Test Progress



Send2You Delivery Fuel Costs and Consumption						
This Year						
Fuel Costs and Consumption	January	February	March	April	May	June
Fuel Cost (£ per litre)	0.96	0.95	0.96	0.97	0.98	0.99
Litres purchased	720	860	795	845	870	835
Average Fuel Consumption (km/litre)	17	14.5	12.5	15	19	13.5

Notes: £1 = USD 2.01, 1 gallon = 4.5 litres

Question 22

Two new vans are purchased in February costing £14,000 each. Van 1 is driven 800km at the average fuel consumption and Van 2 is driven 1000km using 60% of the average. What is the extra cost to the company?

☐ £28,161

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☐ £28,170

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☐ £28,190☐ £28,211☐ £28,240

Help

Back

Next

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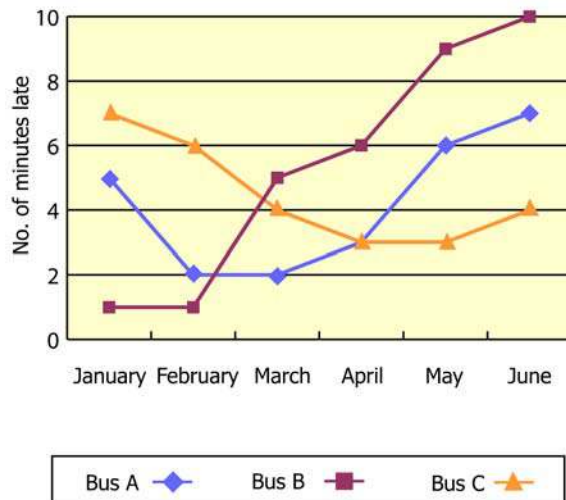
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42

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Bus Punctuality



Question 23

The company aims for buses to run less than 2 minutes late on average for the next six months. To achieve this, what would the percentage decrease in the number of minutes late for Bus A need to be?

- ☐ 2%
- ☐ 48%
- ☐ 52%
- ☐ 55%
- ☐ 60%

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Help

Back

Next

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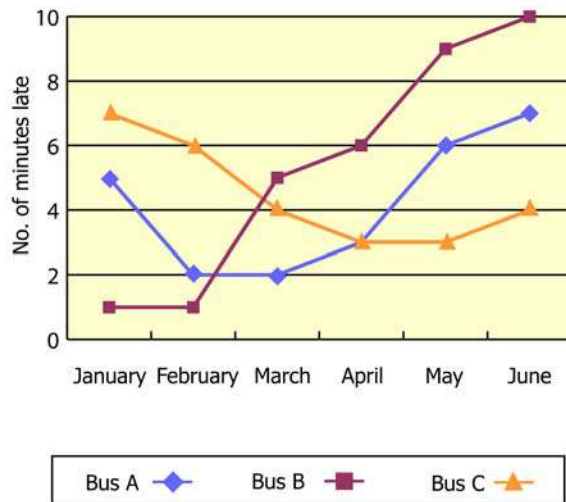
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41

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Bus Punctuality



Question 24

For Bus B, what is the proportional increase in delay between April and June relative to that between March and May?

- ☐ 2:3
- ☐ 3:4
- ☐ 5:6
- ☐ 6:5
- ☐ 4:3

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Block

Help

Back

Next

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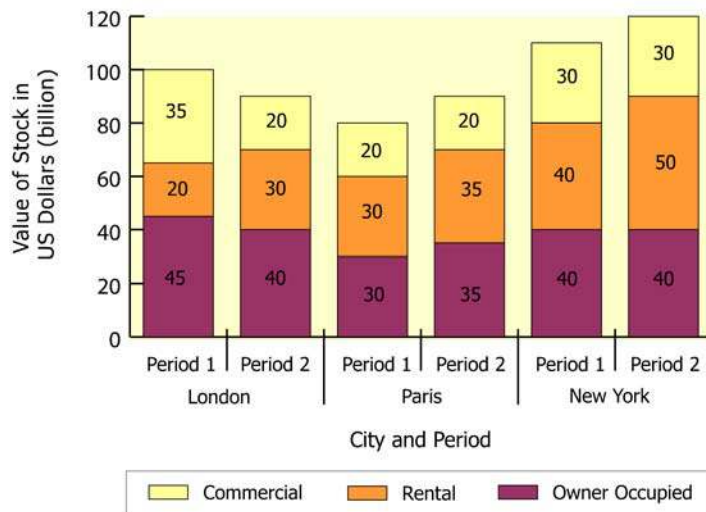
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41

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International Property Stock Values



Question 25

What was the ratio of New York Owner Occupied property value to the value of Commercial property in Paris in Period 2?

☐ 1:2☐ 1:3☐ 2:5☐ 3:5☐ 2:1

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Help

Back

Next

Block

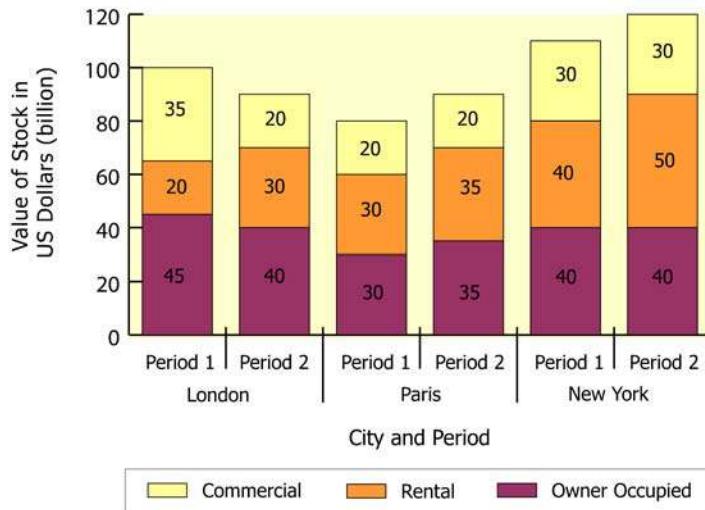
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41

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International Property Stock Values



Question 26

If Paris experiences the same rate of change in Commercial stock as London did from Period 1 to Period 2, what will the approximate value of Parisian Commercial stock be in Period 3 in US dollars?

- ☐ USD 9bn
- ☐ USD 11bn
- ☐ USD 13bn
- ☐ USD 16bn
- ☐ USD 21bn

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Help

Back

Next

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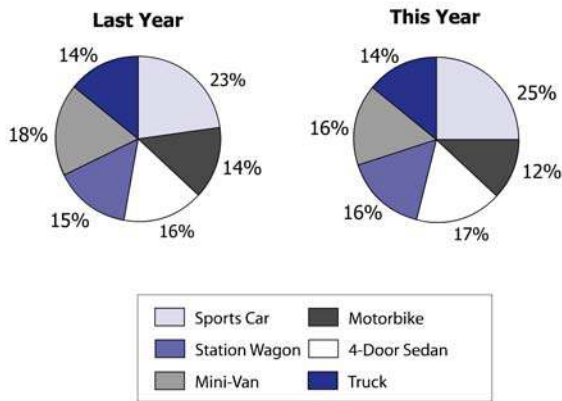
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41

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Vehicle Production Numbers for Cobra Cars



Question 27

If the ratio of 4-Door Sedans produced last year to 4-Door Sedans produced this year is 1:3 and 19,000 Sports Cars were produced in this year, approximately how many Station Wagons were produced last year?

☐ 2,258

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☐ 3,037

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☐ 3,768☐ 4,037☐ 5,008

Help

Back

Next

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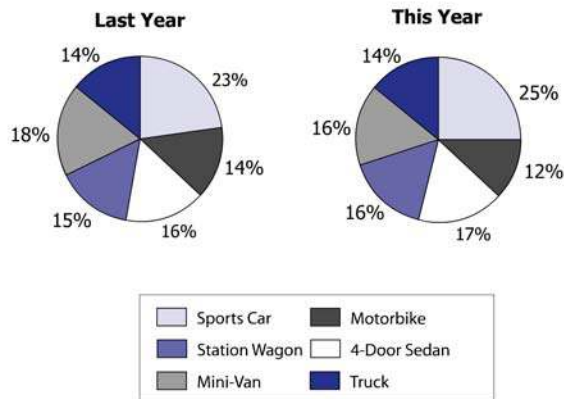
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41

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Vehicle Production Numbers for Cobra Cars



Question 28

96,000 vehicles were produced this year, which is a 3.7% increase from last year. If this trend continues and the proportions remain constant, how many years will it be before the company produces at least 12,600 Motorbikes?

- ☐ 1 year
- ☐ 2 years
- ☐ 3 years
- ☐ 4 years
- ☐ 5 years

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Block

Help

Back

Next

Block

Minutes Remaining

40

Test Progress



Type of Renewable Energy Production by Country (This Year)				
	Hydro (%)	Solar(%)	Wind (%)	Biomass (%)
Country A	80	5	10	5
Country B	5	60	20	15
Country C	50	5	5	40
Country D	30	10	5	55

Question 29

If Country A generates twice as much Wind Power as Country C and 6,000MW were generated by Biomass in Country A, how much Solar Power is produced by Country C?

- ☐ 3,000MW
- ☐ 6,000MW
- ☐ 12,000MW
- ☐ 60,000MW
- ☐ 120,000MW

Block

Block

Help

Back Next

Block

Minutes Remaining

40

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Type of Renewable Energy Production by Country (This Year)				
	Hydro (%)	Solar(%)	Wind (%)	Biomass (%)
Country A	80	5	10	5
Country B	5	60	20	15
Country C	50	5	5	40
Country D	30	10	5	55

Question 30

If Country C doubles the proportions of Solar and Wind Power and reduces that of Biomass to 30% next year, how much more Power will be generated by Hydro-Power compared to Wind, if Biomass is predicted to generate 30,000MW?

- ☐ 10,000MW
- ☐ 30,000MW
- ☐ 40,000MW
- ☐ 50,000MW
- ☐ 100,000MW

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Block

Help

Back

Next

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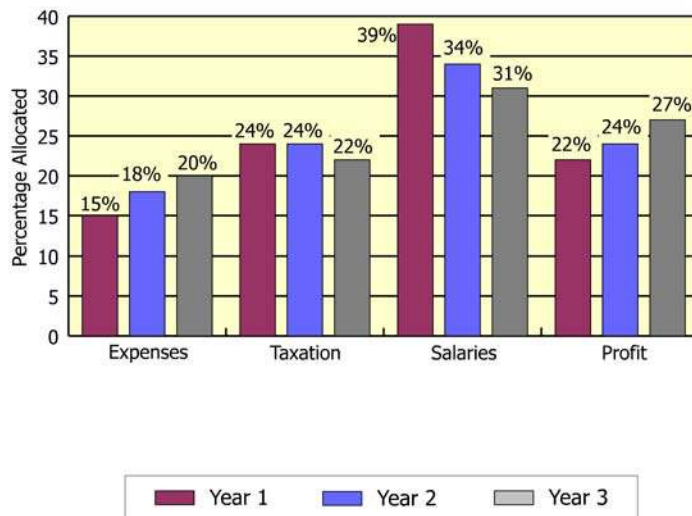
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40

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Allocation of Sales Revenue



Question 31

If the total amount spent on salaries and expenses in Year 1 was £300,000, how much was spent on Taxes?

- ☐ £122,222
- ☐ £133,333
- ☐ £688,888
- ☐ £1,230,769
- ☐ £2,088,319

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Block

Help

Back

Next

Block

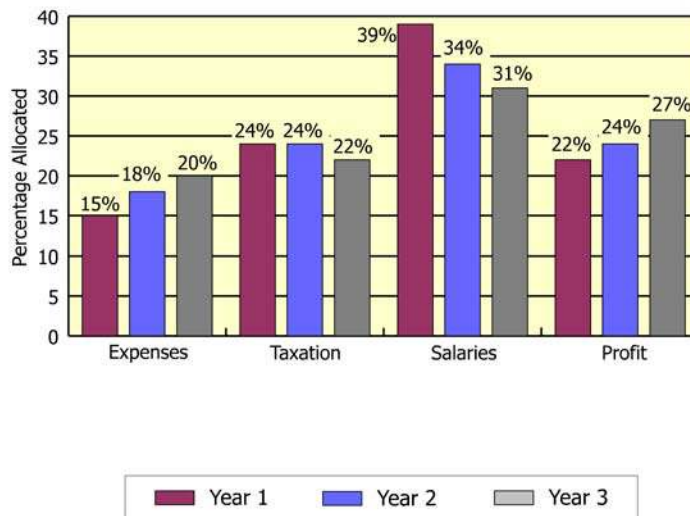
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40

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Allocation of Sales Revenue



Question 32

The amount spent on tax increased by 30% between Years 2 and 3. By what percentage did salaries increase?

- ☐ 3%
- ☐ 27%
- ☐ 29%
- ☐ 30%
- ☐ 33%

Block

Block

Help

Back

Next

Block

Minutes Remaining

39

Test Progress



Metropolitan Fuel Consumption						
City	Population (millions)			Fuel consumption (millions of tonnes)		
	Year 30	Year 40	Year 50	Year 30	Year 40	Year 50
Beijing	4.4	6.2	9.1	5.1	9.2	18.2
London	4.8	5.9	7.7	20.3	41.1	61.7
Mexico City	4.6	6.3	8.8	4.4	7.3	15.5
Mumbai	6.2	8.8	12.8	3.7	6.4	13.1
New York	4.7	6.1	8.2	13.4	27.5	54.3

Question 33

If Mumbai's population continues to grow at the rate it did from Year 40 to Year 50, while its fuel consumption per person rises to that of London in Year 50, approximately what would its fuel consumption be in Year 60?

- ☐ 110 million tonnes
- ☐ 120 million tonnes
- ☐ 130 million tonnes
- ☐ 140 million tonnes
- ☐ 150 million tonnes

Block

Block

Help

Back

Next

Block

Minutes Remaining

39

Test Progress



Metropolitan Fuel Consumption						
City	Population (millions)			Fuel consumption (millions of tonnes)		
	Year 30	Year 40	Year 50	Year 30	Year 40	Year 50
Beijing	4.4	6.2	9.1	5.1	9.2	18.2
London	4.8	5.9	7.7	20.3	41.1	61.7
Mexico City	4.6	6.3	8.8	4.4	7.3	15.5
Mumbai	6.2	8.8	12.8	3.7	6.4	13.1
New York	4.7	6.1	8.2	13.4	27.5	54.3

Question 34

If fuel consumption and population size change at the same rate as they did from Year 40 to Year 50, what will be the approximate ratio of fuel consumption per person in Beijing, to that in New York in Year 60?

☐ 2:7

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☐ 2:5

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☐ 3:7☐ 4:7☐ 3:5

Help

Back

Next

Block

Minutes Remaining

39

Test Progress



Metropolitan Fuel Consumption						
City	Population (millions)			Fuel consumption (millions of tonnes)		
	Year 30	Year 40	Year 50	Year 30	Year 40	Year 50
Beijing	4.4	6.2	9.1	5.1	9.2	18.2
London	4.8	5.9	7.7	20.3	41.1	61.7
Mexico City	4.6	6.3	8.8	4.4	7.3	15.5
Mumbai	6.2	8.8	12.8	3.7	6.4	13.1
New York	4.7	6.1	8.2	13.4	27.5	54.3

Question 35

If the London population continues to grow at the same rate as Years 40 to 50, by how much would the fuel consumption per person need to fall in order for the annual fuel consumption in Year 60 to be the same as that in Year 50?

☐ 1.4 tonnes

Block

☐ 1.5 tonnes

Block

☐ 1.8 tonnes☐ 1.9 tonnes☐ 2.0 tonnes

Help

Back

Next

Minutes Remaining

38

Test Progress

CO₂ Emissions in Seattle

Transport Type	Average No. of Vehicles per Day (000s)	Average Distance Travelled by one Vehicle per Day (km)	Average No. of Seats	Average Occupancy (%)	Average CO ₂ Emission* (gram/person/km)
Motorcycle	320	26	1.6	71	75
Car	1075	43	4.3	33	250
Bus	112	57	55	57	70
Train	89	108	430	44	120
Aeroplane	0.54	780	220	84	370

Note: 1 tonne = 1000kg

*Refers to average CO₂ emission for a vehicle with average occupancy

Question 36

If a Carbon tax of \$100 for each tonne of CO₂ emitted is instituted in Seattle, what would the tax per passenger be on an Aeroplane trip of 2000km?

☐ \$7.40

☐ \$8.00

☐ \$37.00

☐ \$74.00

☐ \$80.00

Block

Block

Help

Back

Next

Block

Minutes Remaining

38

Test Progress



CO ₂ Emissions in Seattle					
Transport Type	Average No. of Vehicles per Day (000s)	Average Distance Travelled by one Vehicle per Day (km)	Average No. of Seats	Average Occupancy (%)	Average CO ₂ Emission* (gram/person/km)
Motorcycle	320	26	1.6	71	75
Car	1075	43	4.3	33	250
Bus	112	57	55	57	70
Train	89	108	430	44	120
Aeroplane	0.54	780	220	84	370

Note: 1 tonne = 1000kg

*Refers to average CO₂ emission for a vehicle with average occupancy

Question 37

If total passenger numbers for Cars remained constant, and the percentage of average occupancy was increased to that of Aeroplanes, approximately how many Cars would be on the road per day?

- ☐ 420,000 Cars
- ☐ 450,000 Cars
- ☐ 480,000 Cars
- ☐ 510,000 Cars
- ☐ 540,000 Cars

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Help

Back

Next

Block

Minutes Remaining

38

Test Progress



Riddleston Salary Expenditure

Employee Category	Year 1		Year 2		Recruitment Cost per Head (£)	Average Employment Duration (months)
	Average Monthly Salary (£)	No. of Employees	Average Monthly Salary (£)	No. of Employees		
Director	31240	1	37280	2	25793	50
Head of Department	9920	11	11140	12	4389	34
Manager	4360	34	4920	43	347	17
Consultant	2240	26	2320	34	246	43
Administrator	1120	17	1240	7	115	39

Question 38

If all recruitment was for the purpose of adding new staff, not for replacing lost staff, approximately what proportion of total expenditure on recruitment from Year 1 to Year 2 would be spent on recruitment of Heads of Department?

☐ 12.4%

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☐ 13.3%

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☐ 14.3%

☐ 15.1%

☐ 16.0%

Help

Back

Next

Minutes Remaining

37

Test Progress



Riddleston Salary Expenditure

Employee Category	Year 1		Year 2		Recruitment Cost per Head (£)	Average Employment Duration (months)
	Average Monthly Salary (£)	No. of Employees	Average Monthly Salary (£)	No. of Employees		
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Administrator	1120	17	1240	7	115	39

Question 39

If Year 2's employee numbers stay constant into Year 3, what will be the minimum number of replacements made in the office that year across all employee categories?

☐ 44

☐ 45

☐ 46

☐ 47

☐ 48

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