

Minutes Remaining

46

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

Which month had the lowest average revenue per download?

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

[Help](#)[Next](#)

Minutes Remaining

43

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 2

What was the approximate percentage increase in total number of downloads from April to May?

- ☐ 6%
- ☐ 14%
- ☐ 35%
- ☐ 54%
- ☐ 58%

[Help](#)[Back](#)[Next](#)

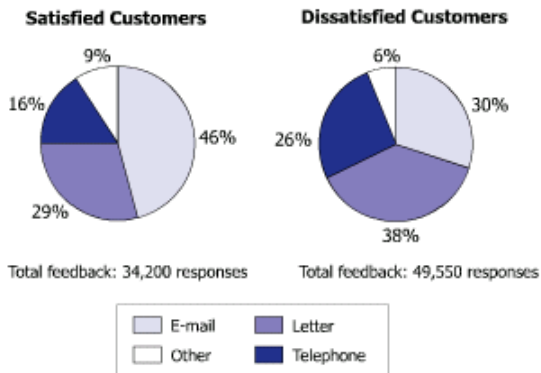
Minutes Remaining

42

Test Progress



Thriller Park Customer Feedback



Question 3

If 32% of dissatisfied customers requested compensation and each received a £20 voucher, what would the total cost of compensation be?

- ☐ 109,440
- ☐ 117,210
- ☐ 158,560
- ☐ 218,880
- ☐ 317,120

Help

Back

Next

Minutes Remaining

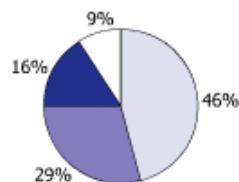
42

Test Progress



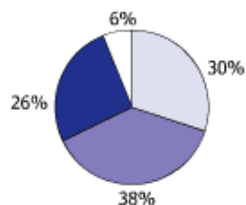
Thriller Park Customer Feedback

Satisfied Customers



Total feedback: 34,200 responses

Dissatisfied Customers



Total feedback: 49,550 responses



Question 4

Half of the Other responses from satisfied customers were text messages. How many text messages were sent by satisfied customers?

- ☐ 1,359
- ☐ 1,486
- ☐ 1,502
- ☐ 1,539
- ☐ 3,078

Help

Back

Next

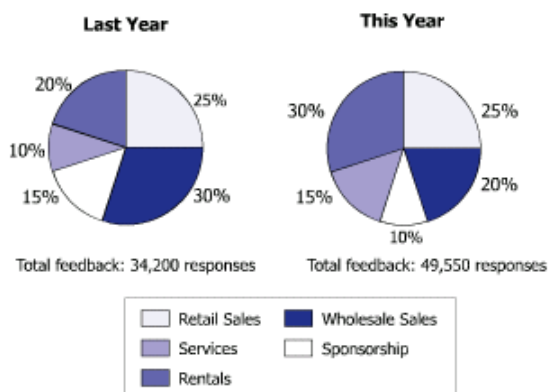
Minutes Remaining

42

Test Progress



Ever Fabulous' Revenues (£s)



Total Revenue this year is £75,000

Question 5

It is estimated that Retail Sales will account for 40% of revenue next year. If total revenue increases by 15% next year, by how much will Retail Sales increase?

- ☐ £15,750
- ☐ £16,250
- ☐ £17,500
- ☐ £18,750
- ☐ £34,500

Help



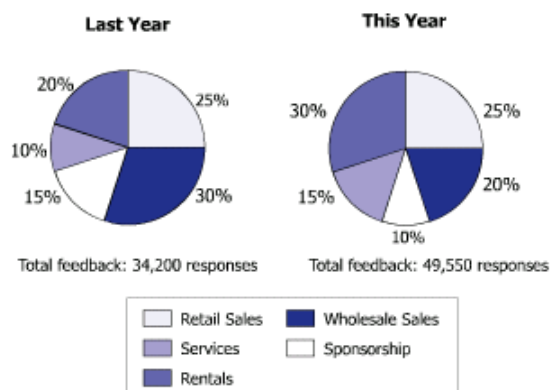
Minutes Remaining

42

Test Progress



Ever Fabulous' Revenues (£s)



Question 6

If the total revenue this year is 20% higher than last year, how much revenue was made from Rentals and Sponsorship last year?

- ☐ £21,000
- ☐ £21,500
- ☐ £21,875
- ☐ £22,000
- ☐ £22,875

Help

Back Next

Minutes Remaining

42

Test Progress



Purchase Credit Plan		
Amount Owing	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

[Help](#)

Minutes Remaining

42

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?

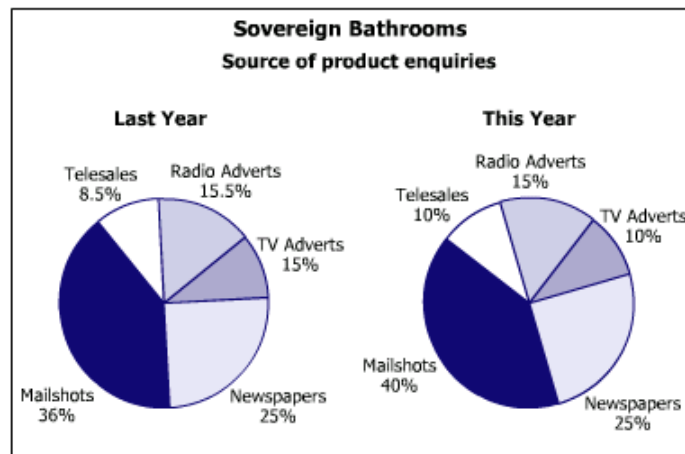
- ☐ 1/2
- ☐ 2/3
- ☐ 4/5
- ☐ 7/8
- ☐ 11/12

[Help](#)[Back](#)[Next](#)

Minutes Remaining

42

Test Progress

**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

[Help](#)[Back](#)[Next](#)

Minutes Remaining

42

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%

Help

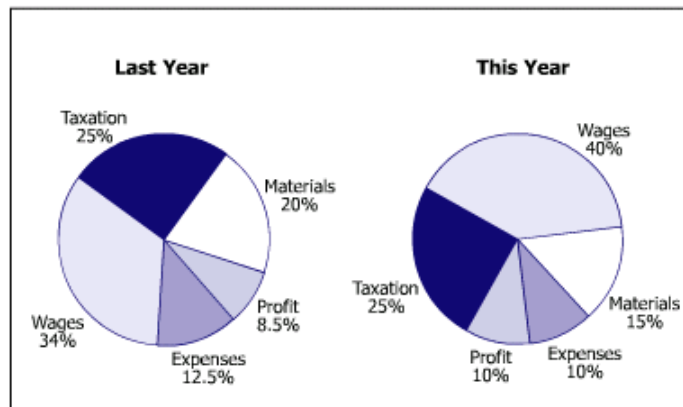
Back

Next

Minutes Remaining

41

Test Progress

**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

[Help](#)[Back](#)[Next](#)

Minutes Remaining

41

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?

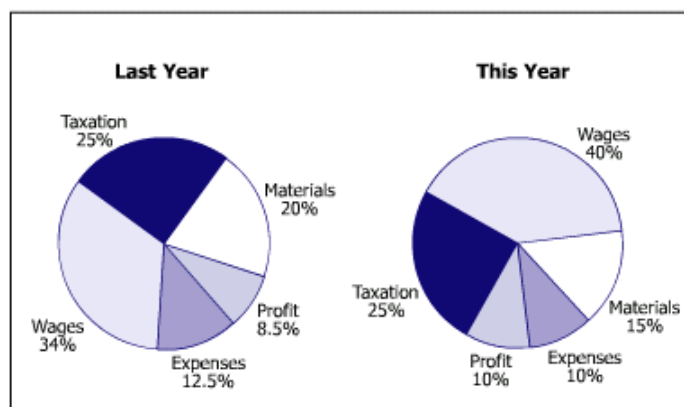
- ☐ Factory 1
- ☐ Factory 2
- ☐ Factory 3
- ☐ Factory 4
- ☐ Factory 5

[Help](#)[Back](#)[Next](#)

Minutes Remaining

41

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

[Help](#)[Back](#)[Next](#)

Minutes Remaining

41

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

[Help](#)[Back](#)[Next](#)

Minutes Remaining

41

Test Progress

**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

Help

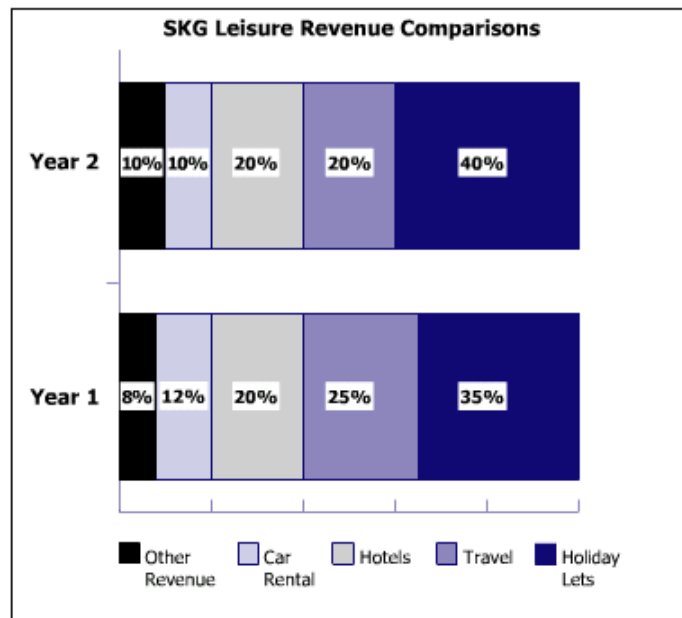
Back

Next

Minutes Remaining

41

Test Progress

**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

[Help](#)[Back](#)[Next](#)

Minutes Remaining

41

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

What percentage of Country X's total fossil fuel consumption was accounted for by Transport and Communication in Year 2?

- ☐ 11.2%
- ☐ 11.8%
- ☐ 12.6%
- ☐ 13.2%
- ☐ 13.4%

[Help](#)


Minutes Remaining

41

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 Year 1, what is the ratio of fossil fuels used in Electricity, Gas and Water to those used in Mining and Quarrying, for both countries?

☐ 2:13

☐ 4:25

☐ 13:2

☐ 13:4

☐ 27:4

Minutes Remaining

40

Test Progress



Shipping Company Profits		
	Profits in Company 1 (£)	Profits in Company 2 (£)
Year 1	207,934	202,239
Year 2	279,182	218,992
Year 3	299,734	231,674
Year 4	329,722	249,747
Year 5	330,571	255,964
Year 6	367,942	269,827
Year 7	368,794	275,662
Year 8	348,371	280,086
Year 9	334,791	289,163
Year 10	317,946	317,946

Profits = Revenue - Costs

Question 19

From Year 10, if Company 2's profits continues to increase at half the rate between Year 9 and 10, approximately how much profit will it make in Year 14?

- ☐ £350,500
- ☐ £368,000
- ☐ £386,000
- ☐ £406,000
- ☐ £465,000

Help

Back

Next

Minutes Remaining

40

Test Progress



Shipping Company Profits		
	Profits in Company 1 (£)	Profits in Company 2 (£)
Year 1	207,934	202,239
Year 2	279,182	218,992
Year 3	299,734	231,674
Year 4	329,722	249,747
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Year 7	368,794	275,662
Year 8	348,371	280,086
Year 9	334,791	289,163
Year 10	317,946	317,946

Profits = Revenue - Costs

Question 20

From Year 10, if Company 1's profits continues to fall at double the rate between Year 9 and 10, approximately what is the difference in profits made between Year 10 and Year 13?

- ☐ £31,200
- ☐ £45,600
- ☐ £60,800
- ☐ £86,600
- ☐ £109,900

Help

Back

Next

Minutes Remaining

40

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 21

Send2You Delivery receives 5% cashback for every £20 spent over £700 each month. How much did Send2You spend on fuel in the first 6 months of the year?

- ☐ £4,738.30
- ☐ £4,740.30
- ☐ £4,741.30
- ☐ £4,744.30
- ☐ £4,770.30

[Help](#)[Back](#)[Next](#)

Minutes Remaining

40

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

Based on the average consumption level, how many kilometres could Send2You's drivers have travelled in the month that incurred the second greatest fuel bill?

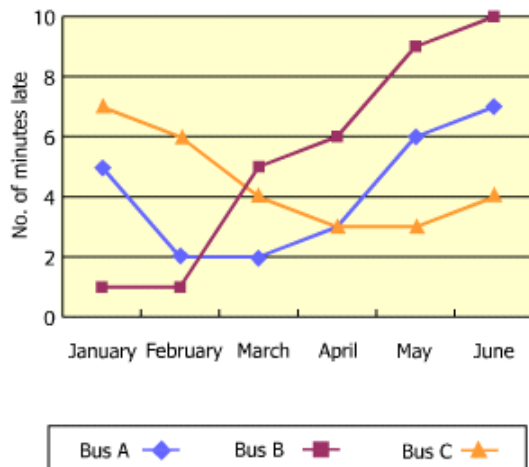
- ☐ 11,273 km
- ☐ 11,847 km
- ☐ 12,470 km
- ☐ 12,675 km
- ☐ 16,530 km

[Help](#)

Minutes Remaining

40

Test Progress

**Bus Punctuality****Question 23**

Each bus driver earns a monthly salary of £1,200 and a bonus of £50 for each month that the bus is less than 3 minutes late on average. How much did the company pay the three drivers over the 6 months?

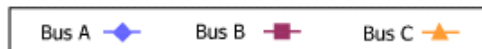
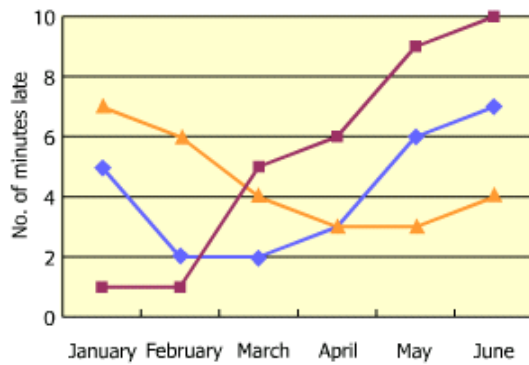
- ☐ £21,400
- ☐ £21,600
- ☐ £21,800
- ☐ £21,850
- ☐ £21,900

[Help](#)[Back](#)[Next](#)

Minutes Remaining

40

Test Progress

**Bus Punctuality****Question 24**

For Bus C, which month saw the largest percentage increase in punctuality compared to the previous month?

- ☐ February
- ☐ March
- ☐ April
- ☐ May
- ☐ June

[Help](#)[Back](#)[Next](#)

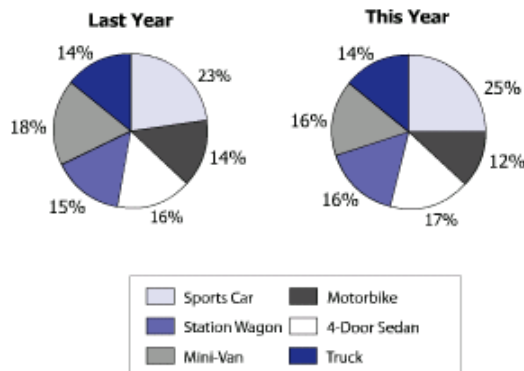
Minutes Remaining

40

Test Progress



Vehicle Production Numbers for Cobra Cars

**Question 25**

Of the total number of vehicles produced last year and this year, 1.76% were rejected at a cost of £50,000. If Cobra Cars spent 12% more this year than last year, approximately how much did the company spend on Trucks last year?

- ☐ £18,800
- ☐ £39,800
- ☐ £187,600
- ☐ £355,100
- ☐ £397,700

Help



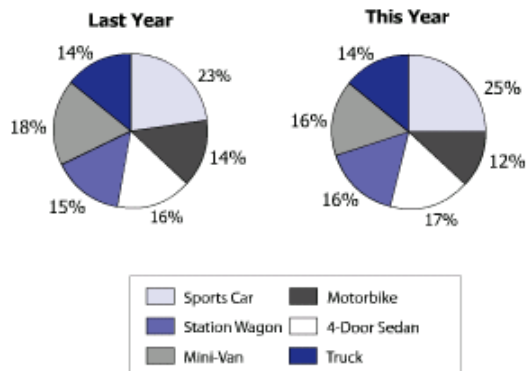
Minutes Remaining

39

Test Progress



Vehicle Production Numbers for Cobra Cars

**Question 26**

88,000 vehicles were produced this year, which is a 1.2% 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 23,000 Sports Cars?

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

[Help](#)[Back](#)[Next](#)

Minutes Remaining

39

Test Progress



Percentage of Defective Components in Factories						
	Year 1		Year 2		Year 3	
	Units Produced	Defects (%)	Units Produced	Defects (%)	Units Produced	Defects (%)
Factory A	12,000	10	14,000	8	16,000	6
Factory B	23,000	5	20,000	5	25,000	3
Factory C	14,000	3	14,000	9	12,000	5
Factory D	13,000	12	25,000	12	27,000	6
Factory E	21,000	15	16,000	12	20,000	6

Question 27

A quality control inspector takes a random sample of 200 components from the total production during Year 3, approximately how many defective components is he likely to find?

☐ 3☐ 5☐ 9☐ 10☐ 11[Help](#)[Back](#)[Next](#)

Minutes Remaining

39

Test Progress



Percentage of Defective Components in Factories						
	Year 1		Year 2		Year 3	
	Units Produced	Defects (%)	Units Produced	Defects (%)	Units Produced	Defects (%)
Factory A	12,000	10	14,000	8	16,000	6
Factory B	23,000	5	20,000	5	25,000	3
Factory C	14,000	3	14,000	9	12,000	5
Factory D	13,000	12	25,000	12	27,000	6
Factory E	21,000	15	16,000	12	20,000	6

Question 28

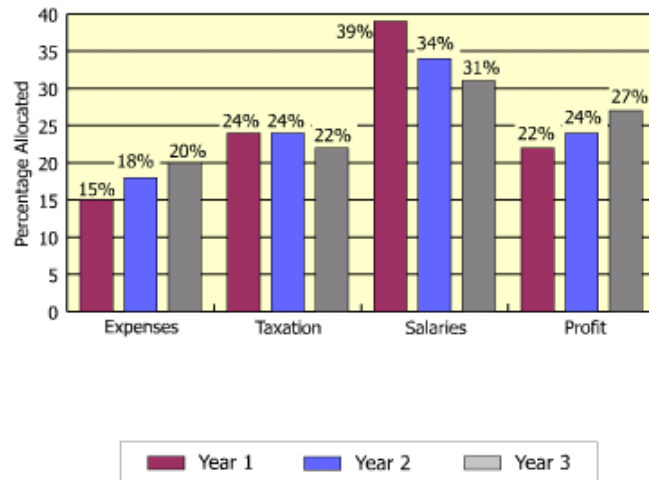
A quality control inspector takes a random sample of 20 components from the production of Factory B during Year 3. What is the probability that any component taken from the sample is free from defects?

☐ 0.03☐ 0.6☐ 0.73☐ 0.82☐ 0.97[Help](#)[Back](#)[Next](#)

Minutes Remaining

39

Test Progress

**Allocation of Sales Revenue****Question 29**

If £217,500 was spent on salaries in Year 2, how much was the company taxed?

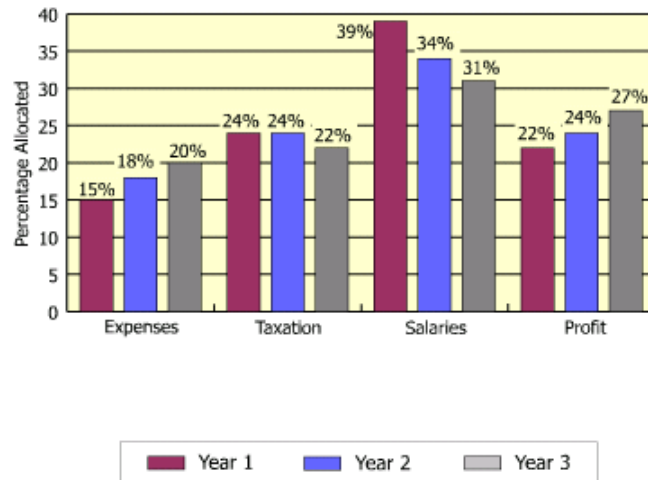
- ☐ £52,200
- ☐ £133,846
- ☐ £153,176
- ☐ £153,529
- ☐ £195,750

[Help](#)[Back](#)[Next](#)

Minutes Remaining

39

Test Progress

**Allocation of Sales Revenue****Question 30**

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

- ☐ £108,553
- ☐ £555,556
- ☐ £769,231
- ☐ £2,000,000
- ☐ £5,128,205

[Help](#)[Back](#)[Next](#)

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 31

Approximately, what will be the average fuel consumption, per person across all 5 cities, in Year 60 assuming the trend in growth from Year 40 to Year 50 continues?

- ☐ 3.9
- ☐ 4.2
- ☐ 4.4
- ☐ 5.3
- ☐ 5.5

[Help](#)[Back](#)[Next](#)

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 32

For the city that showed the most rapid growth in fuel consumption between Year 40 and 50, assuming the same trend in growth continues, approximately how much fuel will be consumed in Year 70?

- ☐ 31.9 million tonnes
- ☐ 32.9 million tonnes
- ☐ 63.8 million tonnes
- ☐ 65.8 million tonnes
- ☐ 69.7 million tonnes

[Help](#)[Back](#)[Next](#)

Minutes Remaining

38

Test Progress



Global Ecological Footprint							
Region	Ecological Footprint per Person (000s m ²)	Proportional Contribution to Ecological Footprint (%)					Population (millions)
		Food	Fuel for Domestic Purposes	Fuel for Transport	Living Space	Other Services	
Africa	11	39	43	5	7	6	900
Asia	22	31	30	19	11	9	3,900
Europe	48	28	22	31	6	13	830
North America	97	11	14	47	17	11	350
Oceania	13	34	36	14	8	8	135
South and Central America	19	39	44	6	6	5	550

Note: 1,000,000m²=1km²**Question 33**

Assuming the proportions of contributory activities remain unchanged, what would the approximate reduction in fuel for Transport in Europe need to be, per person, to equal the global average?

☐ 2,800m²
☐ 4,000m²
☐ 5,200m²
☐ 6,400m²
☐ 7,600m²

Minutes Remaining

38

Test Progress



Global Ecological Footprint							
Region	Ecological Footprint per Person (000s m ²)	Proportional Contribution to Ecological Footprint (%)					Population (millions)
		Food	Fuel for Domestic Purposes	Fuel for Transport	Living Space	Other Services	
Africa	11	39	43	5	7	6	900
Asia	22	31	30	19	11	9	3,900
Europe	48	28	22	31	6	13	830
North America	97	11	14	47	17	11	350
Oceania	13	34	36	14	8	8	135
South and Central America	19	39	44	6	6	5	550

Note: 1,000,000m²=1km²**Question 34**

If people across all regions had an ecological footprint equal to that of people in North America, by approximately what percentage would the total global ecological footprint increase?

- ☐ 110%
- ☐ 210%
- ☐ 260%
- ☐ 280%
- ☐ 360%

Help

Back

Next

Minutes Remaining

38

Test Progress



Treatment of Major Illnesses					
Illness	Number of Reported Cases* (000s)	Reported Cases as Proportion of Estimated Cases	Minimum Cost of Treatment per Case (\$)	Success Rate of Treatment	% of Next Year's Health Budget
Region A					
Malaria	350	0.67	10.62	0.81	24.0
Tuberculosis	17	0.54	4.35	0.87	17.0
Heart-related illnesses	4	0.78	25.24	0.65	6.0
Region B					
Malaria	120	0.94	24.87	0.98	2.5
Tuberculosis	5	0.86	7.91	0.83	1.3
Heart-related illnesses	28	0.97	39.44	0.92	14.0

*Assume all reported cases are treated

Ratio of total health budget of Region A to that of Region B is 1:11

Question 35

An additional Malaria clinic raises the reporting and success rates respectively by 0.5% and 0.2%. Approximately how many more successful cases can be treated if 35 new clinics are built in Region A (number of cases remains unchanged)?

- ☐ 60,000
- ☐ 80,000
- ☐ 100,000
- ☐ 120,000
- ☐ 140,000

Help



Minutes Remaining

38

Test Progress



Treatment of Major Illnesses					
Illness	Number of Reported Cases* (000s)	Reported Cases as Proportion of Estimated Cases	Minimum Cost of Treatment per Case (\$)	Success Rate of Treatment	% of Next Year's Health Budget
Region A					
Malaria	350	0.67	10.62	0.81	24.0
Tuberculosis	17	0.54	4.35	0.87	17.0
Heart-related illnesses	4	0.78	25.24	0.65	6.0
Region B					
Malaria	120	0.94	24.87	0.98	2.5
Tuberculosis	5	0.86	7.91	0.83	1.3
Heart-related illnesses	28	0.97	39.44	0.92	14.0

*Assume all reported cases are treated

Ratio of total health budget of Region A to that of Region B is 1:11

Question 36

Approximately what would be the increase in expenditure on Tuberculosis across both regions if all unreported cases were also treated?

- ☐ \$40,000
- ☐ \$50,000
- ☐ \$60,000
- ☐ \$70,000
- ☐ \$80,000

Help

Back

Next

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 37

Approximately, what is the difference between the total salaries paid to Managers between Year 1 and Year 2?

- ☐ £63,000
- ☐ £76,000
- ☐ £250,000
- ☐ £630,000
- ☐ £760,000

Help

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
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Consultant	2240	26	2320	34	246	43
Administrator	1120	17	1240	7	115	39

Question 38

If the annual growth in the total number of employees is kept constant, approximately how many employees would the company have in Year 4?

- ☐ 99
- ☐ 100
- ☐ 108
- ☐ 116
- ☐ 119

[Help](#)
[Back](#) [Finish](#)