

Thinking Skills Assessment Oxford

1 hour 30 minutes

Wednesday 2 November 2011

SECTION 1 Thinking Skills Assessment

Instructions to Candidates

Please read this page carefully, but do not open this question paper until you are told that you may do so.

A separate answer sheet is provided for this section. Please check you have one. You also require a soft pencil and an eraser.

Please complete the answer sheet with your TSA candidate number, centre number, date of birth and name.

Speed as well as accuracy is important in this section. *Work quickly, or you may not finish the paper.* There are no penalties for incorrect responses, only points for correct answers, so you should attempt all 50 questions. All questions are worth one mark.

Answer on the sheet provided. Questions ask you to show your choice between five options. Choose the **one** option you consider correct and record your choice on the separate answer sheet. If you make a mistake, erase thoroughly and try again.

Any rough work should be done on this question paper.

Dictionaries and calculators may NOT be used.



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Please wait to be told you may begin before turning this page.

This paper consists of 32 printed pages and 4 blank pages.



the figure vix day, st of 'd 11% of nurses across the country would like to leave the profession. However, the 1 rises to 39% amongst nurses who are working alternating shift systems, which mix evening and night shifts. It was found that many nurses preferred one type of shift most the time, whether that involved working early, late or through the night. Employers should urgently review staffing arrangements to avoid the compulsory, alternating patterns. This would make nurses' working hours more compatible with their social and family lives. A further benefit would be a reduction in the cost of training new nurses to replace those leaving.

What is the best expression of the main conclusion of this argument?

- Α The health service should adapt shift patterns to suit nurses in order to retain staff.
- В Alternating shift systems cause nurses to want leave the health service.
- С Many nurses prefer a regular pattern of work.
- D Some nurses would like to leave the profession no matter what their shift pattern.
- Е 61% of nurses prefer alternating shift patterns.
- 2 To play a football pools game, participants must select four matches from the fifty on the coupon. Points are scored depending on the result of each match as follows:

If the home team wins, the participant scores 1.0 point If the away team wins, the participant scores 1.5 points If the match is a draw, the participant scores 3.0 points

Which of the following total scores for the four matches is not possible?

- Α 8.5 points
- В 9.0 points
- С 9.5 points
- D 10.0 points
- Ε 10.5 points

an the big veneen outer ne com Some recent films have been very expensive to make, but have not been 3 box-office hits that would have justified the expense. At the same time, there have films made very cheaply which have been received with both huge critical and popul acclaim. Indeed, some directors who have made successful low-budget films have gone on to make unsuccessful but expensive films. It is obvious then that if directors want to make popular films, they should stick to low budgets.

Which one of the following is the best statement of the flaw in the argument above?

- Critics are often wrong in their predictions about the popularity of films. Α
- В The cost of making a film is normally greater than its original budget.
- С The cost of a film need not be the factor that determines its popularity.
- D The popularity of a film would justify a high level of expense in making it.
- Е The public does not necessarily know whether a film has been expensive or cheap to make.
- 4 It is clear that the world is getting warmer. The only thing that could slow down this process of global warming, and avert ecological disaster, would be an immediate switch to green technologies. If global warming continues at the present rate, some species will be unable to live in the warmer conditions. They will need to move to cooler places than they now occupy, for example closer to the poles, or higher up mountains. Not all of these species will be able to reach cooler climates, because of the long distances they would have to travel. Some of those that could move would end up in overcrowded habitats, which would make successful breeding impossible.

Which one of the following can be drawn as a conclusion from the above passage?

- Α Most species require cool habitats for successful breeding.
- В Many species will be able to adapt to living in warmer climates.
- С Endangered species will survive if we switch to green technologies.
- D It is not possible to avert the ecological disaster caused by global warming.
- Е Unless we switch immediately to green technologies, some species will not survive.

right of the right Cannabis smoking is widespread, even though it is illegal. It is also more dang 5 health than most people realise. If we want to reduce the use of cannabis, it should legalised. People do not turn away from dangerous habits unless they are fully aware the damage these habits can cause. We should have learnt this lesson from the example of tobacco smoking, which has declined dramatically because people have seen that it results in deaths from lung cancer.

Which one of the following is an assumption underlying the above argument?

- Α People who still smoke tobacco are unaware that it can affect their health.
- В Unless cannabis smoking is legalised, its dangers will not be widely known.
- С If tobacco smoking had been illegal, it would have been less widespread.
- D There has been insufficient research on the damage caused by cannabis smoking.
- Ε Cannabis users are motivated by the fact that they are engaging in an illegal activity.
- 6 To encourage themselves to lose weight, Alma, Brigit, Cara, Danni and Evelyn each put £10 into a pot. They weighed themselves when they began and again at the end of each week. The one who had lost most weight after 4 weeks won the £50. The following chart shows their progress:

	Alma	Brigit	Cara	Danni	Evelyn
Starting weight	71kg	67kg	63½kg	66½kg	69kg
Weight after week 1	67kg	68kg	62kg	67kg	66kg
Weight after week 2	63½kg	66½kg	59kg	62kg	63½kg
Weight after week 3	61kg	66kg	58kg	61½kg	62kg
Weight after week 4	64kg	62kg	57½kg	60kg	61kg

Who won the £50?

- Α Alma
- В Brigit
- С Cara
- D Danni
- Е Evelyn

Below is a list c reigns.	of the Angevin and Plant	5 tagenet kings of England and the dates of their
Monarch	Reign	5.
Henry II	1154 - 1189	13
Richard I	1189 - 1199	
John	1199 - 1216	
Henry III	1216 - 1272	
Edward I	1272 - 1307	
Edward II	1307 - 1327	
Edward III	1327 - 1377	
Richard II	1377 - 1399	

Which of the following bar charts represents a distribution of the lengths of the reigns of these kings?



Studente As Deed. As The heimth com A man drives off from his house and travels through the village at a constant s 8 he leaves the village behind, his speed increases to a new constant value while maintains until he reaches a steep hill which slows him down. At the top of the hill driver stops for a few minutes to admire the view. He realises that he has left his picnic basket at home and so drives rapidly back along his route to collect it.

Which one of the following graphs best represents the driver's distance from home throughout his journey?



9 If children are sitting in rows in a classroom, the teacher can have eye contact with all of them while she is explaining something to them. This is not always possible if they are sitting in groups around tables. Also, when they look up, instead of seeing the child opposite in a group and being tempted to talk, they see the teacher. So, sitting in rows helps children to concentrate better on their work and should therefore be the standard arrangement in every school classroom.

Which one of the following, if true, would most strengthen the above argument?

- Α Rows of desks take up no more classroom space than tables.
- В Some children are easily distracted whether they sit in rows or in groups.
- С Sitting in groups of between four and seven makes discussion work easier.
- D Traditionalists argue that teaching the whole class in rows is best.
- Е If desks are arranged in rows, children can all see visual aids more easily.

6

Stillden We have sime http://oph **10** "There are more police officers than ever before in the history of this country." more police officers and more community support officers. That is why, last week, was down. Crime is down 30 per cent."

Which of the following states the flaw in the argument above?

- Α Community support officers don't have the same powers as police officers.
- В Crime levels can be measured in different ways.
- С Crime could have fallen if there had been no increase in policing.
- D The fact that crime was down last week does not mean it will stay down.
- Ε Having more police officers may mean more crime is being detected.
- **11** The differences between human beings are sometimes more striking than the similarities. There is a minority of people who, driven by a competitive urge to be the first or the best, undertake ambitious expeditions involving severe physical deprivations, high risk of fatality, and extreme isolation. Compare these people to the majority who prefer an easy, risk free life of comfort and we can see that one human being can be as different from another in their behaviour as two different species of animal. Any attempt to form general rules about human behaviour needs to bear this variation in mind.

Which one of the following best expresses the conclusion of the passage above?

- Members of the human race can be as different in their behaviour as two Α separate species of animal.
- В Humans who take risks in the interests of achieving unusual feats are untypical.
- С Variation in human behaviour makes it difficult to generalise.
- D Differences between people can be more striking than similarities.
- Е Human beings are superior to all other animals.
- **12** Jars of Bestcaff coffee weighing 200g are normally £2.50 at Kostless and Savemore, but both supermarkets have a special offer this week:

KOSTLESS	SAVEMORE
BESTCAFF	BESTCAFF
80p OFF	25% EXTRA FREE

By how much per kilogram is Kostless's offer better value for money than Savemore's?

- Α £1.50 per kg
- В £4.00 per kg
- С £7.00 per kg
- £8.50 per kg D
- £16 00 nor ka

7

13 The table shows the areas of the countries of the European Union.

		8	Stud			
The table shows the areas of the countries of the European Union.						
Country	area (sq km)	% of EU area	population density (people/sq km)			
Austria	83858	1.90	99			
Belgium	30510	0.70	344			
Bulgaria	110912	2.50	70			
Cyprus	9250	0.20	84			
Czech Republic	78866	1.80	131			
Denmark	43094	1.00	126			
Estonia	45226	1.00	29			
Finland	337030	7.60	16			
France	643548	14.60	99			
Germany	357021	8.10	231			
Greece	131940	3.00	84			
Hungary	93030	2.10	108			
Ireland	70280	1.60	60			
Italy	301320	6.80	196			
Latvia	64589	1.50	35			
Lithuania	65200	1.50	52			
Luxembourg	2586	0.10	181			
Malta	316	0.00	1261			
Netherlands	41526	0.90	394			
Poland	312685	7.10	122			
Portugal	92931	2.10	114			
Romania	238391	5.40	91			
Spain	504782	11.40	87			
Slovakia	48845	1.10	111			
Slovenia	20253	0.50	99			
Sweden	449964	10.20	20			
United Kingdom	244820	5.50	246			
European Union	4422773	100.00				

What is the minimum number of countries needed to make up at least 50% of the total land area?

- Α 5
- В 6
- С 7
- D 11
- Е 22

9 14 There are seven books on my shelf, which are of various sizes. When I look at them straight on I see the following picture:



I now look at them from the left-hand end (in the direction of the arrow).

Which one of the following diagrams is not a possible view when seen from the left-hand end?

В





С

Α



D



Ε



or effects interset it t 15 Similar effects have similar causes. The problem is deciding when one set of sufficiently resembles another to infer a similar cause. You say that the unit resembles a man-made object like a house, so its cause must also be similar, intelligent designer, resembling human beings. But is the universe so like a house? It seems to resemble an animal or vegetable just as closely, so why should its origin not lie in reproduction or some vegetative process? The universe contains many classes of effects and objects, all with their different causes. There seems to be no compelling reason for concluding that the universe as a whole resembles one of these classes of effects or objects more closely than another.

Which one of the following is a conclusion that can reliably be drawn from the above reasoning?

- Α The universe bears no resemblance to a man-made object like a house.
- В The inference that the universe and man-made objects have similar causes is not justified.
- С The world resembles a vegetable more closely than a house.
- D The universe is not the result of intelligent design.
- Е The most likely origin of the universe is a reproductive process.
- **16** At first glance, there is no phenomenon creepier than crop circles huge geometric designs that appear in fields overnight seemingly without cause, explanation or reason. UFO enthusiasts are quick to supply all three, by attributing the patterns to alien visitors seeking to communicate with humans, using laser beams or other advanced technology to flatten the crops. These fanciful claims can fortunately be dismissed thanks to two guite mundane observations. Firstly, ordinary Earth-born individuals have repeatedly demonstrated how to produce the effects with nothing more elaborate than a rope and a plank. Secondly, there is a clear parallel for the phenomenon in the form of urban graffiti. Sneaking into fields to make crop circles is simply a rural variation of a widespread and well-documented human urge.

Which one of the following is an implicit, underlying assumption that is made by the above argument?

- Α Where two explanations compete we should accept the more ordinary one.
- В There is nothing difficult or technical about producing crop circles.
- С Alien visitors would not try to communicate with humans by flattening crops.
- D No visits from intelligent aliens have as yet been documented.
- Е The appearance overnight of huge geometrical designs is creepy if it can not be explained.

Studientest of 'No cost of 'S tikely mut 'S 'S toom 17 When you install a burglar alarm in your home, you do so presumably because the the alarm is less than the expected benefits. The cost of a burglary, if one occurs, is to be much higher than the cost of fitting an alarm. A clearly visible box on an outside w of an alarmed house alerts and discourages potential thieves. Because your house is less likely to be burgled, your neighbour's house may be more vulnerable. Therefore, while there may be little impact on overall crime levels, expensive security devices reduce crimes against those with the devices but increase crimes against those without.

Which one of the following, if true, would most weaken the above argument?

- Α For similar houses, a higher percentage of those without intruder alarms are burgled than those with alarms.
- В As the percentage of houses with intruder alarms increased from 40% to 90%, house burglary rates fell by 60% and there was a rise in street muggings of 100%.
- С Burglars perceive an alarm as a signal that there are items well worth stealing in a house, while no alarm indicates less valuable contents.
- D Only 60% of houses with alarms set the alarm every day.
- Е Burglars know that 25% of all visible alarm boxes are fakes, but cannot tell the fake from the genuine.
- **18** Dates may be written in an eight digit form. For instance, 19 January 2005 may be written 19-01-2005.

In what year will the next date occur for which all eight digits are different?

Α 2013 В 2134 С 2145 D 2345 Е 2456 12 19 This is the view from above of the large three-dimensional logo situated in the forecourt of the head office of Justin Thyme Enterprises:



It was sculpted from a single cube of marble, and has a uniform cross-section from top to bottom.

Which of the following is **not** a possible side view of the logo?



(\$) you will need at various nding on the annual rate o	inst.c
inflation	
3 % 10 %	
469 1611	
587 1772	
714 1949	
851 2144	1
999 2358	1
159 2594	1
661 6728	1
)063 17449	1
1257 304482	1
	(\$) you will need at various adding on the annual rate of a second strain of a second str

Raoul has just bought a new car for \$10 000. He expects this car to last him 8 years, when he will buy another equivalent model. He puts \$10 000 into a bank account ready to pay for the next car. The price of cars rises with inflation at 8% and his savings only earn interest of 6%.

How much will he need to add to his savings when he needs to buy his new car?

Α	\$ 1612
В	\$ 2570
С	\$ 5338
D	\$ 5940
Е	\$ 8510

\$ 8510

s for proper 'd thaffic -ring a -com 21 It would be a good idea if the police force was separated into two divisions, one for policing i.e. protecting citizens and upholding law and order, and the other for road This second division could be combined with traffic wardens as basically they are doing similar job: obtaining money from road users. Perhaps then there would be a proper focus put on catching criminals and protecting the law-abiding public, and we would have a police force doing the job they were actually intended to do.

Which one of the following best describes the flaw in the above argument?

- It overlooks the fact that many traffic offences are both criminal and a serious Α danger to the public.
- В It rests on the false assumption that the police do not protect citizens or catch criminals.
- С It ignores the fact that traffic wardens and the police have different duties and different powers.
- D It wrongly equates protecting citizens with catching criminals.
- Ε It implies that the police once did the job they were supposed to do.
- 22 If you practise playing a musical instrument, your playing will get better. I have not practised playing the piano, so my playing has not got better. I have an exam in two month's time. So I must practise every day if I want to do well.

Which of the following most closely parallels the reasoning in the argument?

- Α If you practise playing the cello your playing will get better. Dawn has not practised much but her playing has got better so she must have done enough. She may even pass her Grade III exam next month.
- If you work hard at a sport, you will become better. I have not worked hard at В my trampolining, so I have not become better. There is a competition next month. So I must work hard if I want to do well.
- С If you work hard at running you will get faster. I have worked hard to get faster, and I have started winning races. There is a race next week. If I want to win it I must keep practising.
- D People who practise a craft get better at that craft. All master craftsmen and women have put long hours of practice into their art. It is impossible to become an expert without practising.
- Е Practise makes perfect. I have practised hard on my violin so I should soon be perfect. I have a competition coming up soon which I fully expect to win.

15
23 Legislation is needed in order to prevent the abuse of genetic testing by insurance companies. New genetic tests may reveal how likely an individual is to suffer from certain in the conditions in later life. Without legislation, insurance companies might those at risk pay more for insurance. This would the People should not be penalised for things over which they have no control.

Which one of the following best illustrates the principle underlying the above argument?

- Α Kylie did not deliberately get her accounts wrong, but she should pay the fine anyway. She should have made sure the accounts were right.
- В Some people have lost everything in the flood. Their insurance companies are responsible for their losses. Therefore the Government should not help out.
- С Philip should not receive any help paying his debts, however sorry one may be for him. He knew in advance that his business venture was very risky.
- D Late payment normally incurs a fine. But Jamuna's payment was held up because postal workers were on strike, so she should not be made to pay the fine.
- Ε Three people were not properly informed of possible financial losses when they joined the scheme. Their financial advisors should lose their professional licences.

16
24 As part of a journey, I must travel from Bowbridge to Downland. I can choose either the motorway (known locally as 'the road to hell') or the old road known as Buttercup restorway I average 60 mph, on the old road I average 40 mph. I can then where they cross.



The distances by the two roads are as follows:

	Motorway	Buttercup Way
Bowbridge / Clatterton	35 miles	30 miles
Clatterton / Downland	35 miles	20 miles

If I take the fastest route, what will be the time saving over the slowest route?

Α	5 min
В	10 min
С	15 min
D	20 min
Е	30 min

Student the ample the com 25 Various shapes may be made by overlapping two transparent squares, for example, dark shaded hexagon shown below:



Which one of the following shapes cannot be made as the overlap of two transparent squares?



his table shows h	ow household siz	18 es in Great Britain	changed betwee	n 1961 any 1991
		Percentages		ELD P
	1961	1971	1981	1991
Household size				
1 person	14	18	22	27
2 people	30	32	32	34
3 people	23	19	17	16
4 people	18	17	18	16
5 people	9	8	7	5
6 or more people	7	6	4	2
Total number of households (millions)	16.2	18.2	19.5	21.9
Average household size (number of people)	3.1	2.9	2.7	2.5

What was the change in the percentage of households with fewer than 3 people between 1971 and 1991?

Α 7

В

С 10

8

D 11

Ε 17

Studen a halling at inntion rices 1. Comm 27 Britain's property market is in the midst of a full-scale slump with house prices their fastest rate in 15 years, according to a new study. But why is there an assure that continuing rises in house prices is a good thing? Why not see the fall in house price as a welcome change? House prices as a percentage of income are grossly overpriced. Low interest rates and cheap mortgages have led to the property market, particularly in London, being overvalued. Surely this will make houses more affordable. First time buyers will be happy beneficiaries of a housing slump. Others finding a silver lining in the gloom are those in rural communities for whom a house had seemed simply out of reach.

Which one of the following is the main conclusion of the above argument?

- Α Low interest rates and cheap mortgages have led to an overvaluing of the property market.
- В It is always assumed that continually rising house prices are a good thing.
- С Rural communities will no longer find buying a house out of reach.
- D Surely a slump in prices will make buying a house more affordable.
- Ε We should view the fall in house prices as a good thing.
- 28 The average life expectancy in working class areas of London was significantly higher than in similar areas in other major cities in the first half of the nineteenth century. In London during this time drinking tea had become a part of daily life amongst the poor. The reason for this was a combination of availability and cost. Boats bringing tea to the country docked in London and a certain amount was sold off directly to local markets. At this time in the rest of the country tea was still regarded as a luxury, consumed only by the better off.

Which one of the following conclusions is best supported by the passage above?

- Α The drinking of tea increases life expectancy.
- В Everyone ought to include tea in their daily diet.
- С There may be properties of tea which are beneficial to health.
- D The growing popularity of tea led to a decrease in the consumption of more harmful drinks, such as gin.
- Ε For the poor tea was a substitute for food.

Studien sepecific sepecific sgiona vre onal mty.com **29** A recent study by a drugs company found that the amount of money spent on a pill used for the treatment of Alzheimer's disease in the UK showed wide real variation. Alzheimer's is a condition associated with the ageing process. In some are the expenditure was as low as £1 per head of the population over 65 whereas in others it was as high as £10 per head. These pills are the most effective treatment for this condition that is currently available. Therefore, this is another example of 'post-code lottery' where the effectiveness of treatment for a health condition will depend upon where you live.

Which one of the following is an assumption underlying the above argument?

- Α The pills are very successful in halting the progress of Alzheimer's disease.
- В The drugs company that did the research doesn't have a vested interest in selling the pills.
- С There are no regional variations in the incidence of Alzheimer's in the 65+ age group.
- D There are no regional variations in the number of people in the 65+ age group.
- Е It is not possible to develop Alzheimer's disease below the age of 65.
- 30 All the teams in a local football league have now played each other once this season. Below is the current league table:

	Played	Won	Drawn	Lost	Goals For	Goals Against
Rovers	4	4	0	0	7	2
United	4	2	1	1	2	1
County	4	1	2	1	4	4
Wanderers	4	1	0	3	3	5
City	4	0	1	3	1	5

What was the result of the match between United and County?

- Α United 0 County 0
- В United 1 County 0
- С United 0 County 1
- D United 1 County 1
- Е United 2 County 1

31 In a modified form of a popular game, each of two players at any turn may put either O or 'X' as she chooses in any blank square of a 3 by 3 grid. She wins if she thereby ''=> of three identical symbols. A player is faced with this situation:



Which one of the following moves ensures that she can win at her next move?

Α



D

В



Х

Х

С



Ε



*40 people, initia normaticom **32** The following table shows the results of a test on smokers trying to guit. Of 240 half were given nicotine tablets and half were given a placebo (a substance containing medication).

	Failed to quit	Succeeded in quitting	Total
Nicotine	64	56	120
Placebo	96	24	120
Total	160	80	240

The researchers assumed that: of the smokers given nicotine tablets, the same proportion would have guit without using them as would have guit using the placebo.

How many of the smokers that were given the nicotine tablets can the researchers conclude had quit due to taking the tablets?

- Α 16 В 32 С 39 D 40
- Е 45
- **33** In a high speed police chase, police drivers sometimes lose sight of the car they are chasing. But that's no reason to give up. All they have to do is take the first left, and then the first left again. Pursued drivers are likely to keep taking turns as they come up, as this seems instinctively like the best way to lose someone who is following them. They are not going to turn right as this involves waiting and checking for oncoming traffic. Therefore take a couple of left turns and the police car will soon have their criminal in sight once again!

Which of the following, if true, would strengthen this argument?

- Α Car chases tend to end with the pursued driver losing control of their vehicle.
- В Drivers in TV car chases tend to turn left rather than right when pursued.
- С Police drivers are usually able to sustain faster average speeds over a length of time than other drivers.
- D Police drivers usually request overhead assistance from a helicopter when chasing criminals in cars.
- Е Two left turns might take the criminal where they want to be going.

Student apd, The apd, The bight the com 34 The museum has decided to spend money in the hope of staying profitable therefore, remaining open. It has opened an expensive new front hall, which is ve and well planned, and will undoubtedly impress new visitors. For serious studen however, it has nothing to offer that was not there before. All the scholars who want to do so already use the museum, they will continue to come however artistic the displays may or may not be. So, it was a waste to spend so much appearances, the money should have been spent on improving conditions for those who come to study.

Which one of the following is the best statement of the flaw in the above argument?

- Α The museum cannot be sure that new visitors will be attracted by its new front hall.
- В There is no evidence that visitors to museums are interested in the conditions in which the contents are displayed.
- С If scholars will continue to come anyway, the museum will not make more money by improving their conditions.
- D There is no contact or sympathy between serious scholars and members of the general public in museums.
- Е It is regular users, and not potential new visitors, to the museum who deserve to be rewarded.
- **35** England is set to become the most crowded country in Europe as its population grows by a third over the next 50 years, according to official projections. There are currently some 50 million people in England, but in 50 years this could hit 68 million - 1,349 for every square mile. Opposition political parties, who have obtained the data from the Office for National Statistics, demanded restrictions on migration levels. The opposition spokeswoman for immigration said "This demonstrates the real pressure public services are being put under as a result of the failed immigration policy of the present government, which the electorate are increasingly recognising." Continued unrestricted population growth will lead to extremist political parties benefiting at the ballot box.

Which one of the following best expresses the main conclusion of the above argument?

- Α Extremist parties will gain political capital from the growth in population.
- В England is set to become the most crowded country in Europe over the next 50 years.
- С Public services will come under increasing pressure as a result of immigration policy.
- D The electorate are dissatisfied with the government's immigration policy.
- Е Opposition parties believe immigration is the sole reason for the projected rise in population in England.

An amount of a minimus com **36** When my father ran a pizza shop he sold pizzas for a fixed amount plus an proportional to the ingredients used. A regular pizza uses twice the ingredients of one and a large pizza twice those of a regular one.

Which one of the following price scales could he have used for mini, regular and large pizzas?

- Α £0.49, £1.00, £1.96
- В £1.00, £2.00, £3.00
- С £1.10, £2.20, £3.30
- D £1.70, £2.00, £2.40
- Е £2.00, £3.00, £5.00
- 37 I often order items from a mail order catalogue. The charges for postage and packing (to be added to the order value) are as follows:

Order value:	less than £25.00	-	£4.50
	£25.00 to £49.99	-	£8.50
	£50.00 to £74.99	-	£12.00
	£75.00 to £99.99	-	£15.00
	£100.00 and over	-	£17.50

Just before sending off my latest order, I noticed that the current catalogue offers half price postage and packing for orders of 8 or more items. My order was for 7 items, with an order value of £74.60. I could not find anything else I wanted, so I just added the cheapest item in the catalogue (priced at £1.25) to my order.

By how much did adding the extra item to my order reduce the total cost?

Α £3.25 В £4.50 С £4.75 D £5.75 Е £6.25

- **38** John wishes to have 500 copies of a brochure printed and is offered a choice of structures:
 - 1. An equal cost for each brochure printed, regardless of number.
 - 2. An initial fixed cost followed by a lower cost than structure 1 for each brochure.

Student Piee Which one of the following sets of information would be sufficient for him to be able to decide which of the two price structures would be least expensive?

- Α The number of brochures for which the total bill would be the same by both structure 1 and structure 2.
- В An example showing the cost of 500 brochures for structure 1 and 200 brochures using structure 2.
- С The cost per brochure using structure 1 and the initial cost using structure 2.
- D An example showing the cost of 200 brochures using structure 1 and 200 brochures using structure 2.
- Ε The cost of 1 brochure using structure 1 and 2 brochures using structure 2.
- **39** Many people who live near to mobile phone masts are worried that radiation from these masts will damage their health. Mobile phones themselves have also been suspected of emitting dangerous levels of radiation, and a report recommended that children should be discouraged from making non-essential calls. Emission of radiation from the masts is much lower than that from a mobile phone. A few seconds making a phone call is comparable to 24 hours of exposure from a mast. Radiation from both these sources is below the international guidelines as to what is a dangerous level, but no one can yet be certain if these guidelines accurately reflect the level of risk.

Which one of the following can be drawn as a conclusion from the above passage?

- Α People who use mobile phones are putting their health at risk.
- В The international guidelines underestimate the risk to health from low levels of radiation.
- С The health risk from living near a phone mast is lower than that from using a mobile phone.
- D People who live near mobile phone masts overestimate the risks to their health from these masts.
- Ε If extensive use of mobile phones is not harmful to health, radiation from a mast is unlikely to be a risk.

40 University education is not a matter of forcing through the largest number of graduates at the lowest possible short-term cost. This would not serve the needs of the current instrudents and, even from a narrow economic viewpoint, it would not promote the software interested in the eventual instruction. It is often a poor economic practice to skimp on the only interested in the eventual instruction. purposes than merely the promotion of economic prosperity.

Which of the following is an underlying assumption of the above argument?

- Α The principal purpose of university education is to serve the needs of the present generation of students.
- В The principal purpose of university education is to promote the long term economic prosperity of the community.
- С The more money the manufacturer spends on the production of a product, the greater the eventual profit is likely to be.
- D Policies of cost-cutting are likely to reduce the extent to which the university education will achieve its overall purpose.
- Ε Universities should be managed so as to make a monetary profit, but they should also promote certain non-financial values.
- **41** The preservation of First Class sections on trains is indefensible. This is not because it is socially divisive, which it is; nor because it is very expensive, which it also is; but because it inevitably leads to a relatively poorer service in Standard Class sections of trains. Clearly, in order to attract First Class passengers it is necessary to maintain certain levels of discomfort in those compartments which cater to the great majority of travellers. There is, for example, a powerful disincentive to make more space generally available on trains, as one of the main inducements to travel First Class is to escape overcrowding and be assured of a seat. Yet, additional space would add significantly to the safety and comfort of most passengers.

Which one of the following, if true, would most weaken the above argument?

- Α More people are now using First Class sections on trains than ever before.
- В The whole rail service benefits from the increased revenue generated by the high cost of First Class tickets.
- С On many trains the First Class section occupies only a small proportion of the total accommodation.
- D No one is excluded from travelling in the First Class sections of trains, provided they are prepared to pay the higher fare.
- Е Some people who travel in First Class sections of trains would not use the trains if there were no First Class sections.



Which one of the views below can **not** be of this box?



At Morland C	ollogo, oll 120 p				
below shows t	the numbers of p	upils in year 11 ta upils taking each la	anguage combina	ation.	ULLD-
	French	German	Italian	Spanish	2.0
Mandarin	9	3	2	4	3
Spanish	14	9	13		
Italian	13	19			
German	24				

What percentage of those taking Spanish are also taking French? (Give your answer to the nearest 1% if necessary).

- 12% Α
- В 23%
- С 35%
- D 39%
- Е 54%

44 The diagram below shows Morden Hall and the network of paths within the grounds.



When the owner takes his dog for a walk he always starts and finishes at the intersection outside the front door and (keeping to the paths) walks one complete triangular route.

How many different routes does he have to choose from? (Clockwise and anticlockwise around the same triangle counts as one route only.)

5 Α 7 В С 10 D 11 Е 12

'-mativated, 'recults... or com **45** Although study leave in the run up to exams is traditional, and benefits well-me organised students, recent thinking suggests that it is not the best way to improve re Some students are required to do housework or help in the family business rather the studying. Many others spend time playing computer games, watching daytime TV or hanging around with friends instead of revising. Schools which provide in-school study areas with teacher supervision and a programme of booster revision sessions are getting more A*s and fewer Ds. It is time to ditch study leave.

Which one of the following best expresses the main conclusion of the argument?

- Α Many students do not make good use of their study leave.
- В Students who work hard find study leave useful.
- С Study leave is not the best way for students to gain high results.
- D Study leave ought to be abandoned.
- Ε Traditional methods of education need to be updated to improve results.
- 46 Land reform is urgently needed in the UK. It is well documented that around two-thirds of Britain is owned by just 0.3% of the population. Many of the largest estates have been in the hands of the same families for centuries, and were acquired under outdated feudal laws, often by means of aggression. If these families had any sense of social justice in the 21st century they would by now have voluntarily surrendered all but the acreage they needed for personal privacy. the state should confiscate all excessive land holdings without compensation and redistribute them into the families of workers and taxpayers at affordable prices.

Which of the following phrases, inserted in the blank space, most logically completes the above argument?

- Α In the current economic climate, ...
- В On the other hand, ...
- С This being the case, ...
- D Therefore, on legal grounds, ...
- Ε Since they have not, ...

47 All trees have leaves. An oak is a tree. Therefore oaks have leaves.

StudentBounty.com Which one of the following most closely parallels the reasoning used in the argument?

- Α All leaves grow on trees. That plant has leaves. Therefore that plant is a tree.
- В All oaks have leaves. That tree has leaves. Therefore that tree is an oak.
- С All plants have leaves. That leaf is an oak leaf. Therefore all plants are oaks.
- D All trees have leaves. That plant has leaves. Therefore that plant is a tree.
- Е All trees have leaves. That plant is not a tree. Therefore that plant does not have leaves.
- 48 Megan pays a subscription to Probe Information Services. This is an internet service which allows her to access up-to-date information relevant to her job. The leaflet which came with her application form is reproduced below.

Probe Information Services - Serving you in the Internet Age							
Minimum monthly charge \$5 - this gives access to all services and a \$5 credit which will be set against the actual use made							
Information category	Cost per enquiry	Average access and download time					
Financial Markets (updated every 20 minutes)	10c	30 seconds					
Exchange Rates (updated hourly)	10c	30 seconds					
Company News (updated twice a day)	10c	1 minute 30 seconds					
Detailed Information	50c	2 minutes 30 seconds					
Commodities in World Markets	10c	30 seconds					
Probe's charges do not include the cost of phone calls. All calls are at local rates							

Megan's call charges are at local rates of 10c for up to 2 minutes and 5c per additional minute or part of a minute. In the first month, Megan seeks detailed information on 5 companies and uses the other services a total of 42 times.

How much will Probe bill her?

\$ 5.	00
\$	\$ 5.

- В \$ 6.70
- С \$ 7.50
- D \$ 9.95
- Е \$ 11.65

49 A group of Construction students must choose their specialist options from the list:

Bricklaying, Damp-proofing, Drainage, Flooring, Joinery, Plastering, Roofing

Student Rigunity Com Each student must choose three options. The available options may be combined with each other in any way, with the exception of the restrictions that Damp-proofing and Drainage together may not be combined with Bricklaying or Plastering because of timetable constraints, and that students choosing Joinery must also choose Flooring.

How many possible combinations including Drainage could the students choose from?

- Α 7
- В 8
- С 9
- D 10
- Ε 11

50 I am a member of a book club. Every month I must choose at least one book. are sold at a discount of £2.00 on shop prices. I pay a fixed charge for postage regain of which books I order.

Studenteeks Au books Au books Au books Au books Which one of the following graphs could show the relationship between the number of books ordered in a month and the total saving on shop prices (allowing for postage charge)?





С

Α



D



Ε









