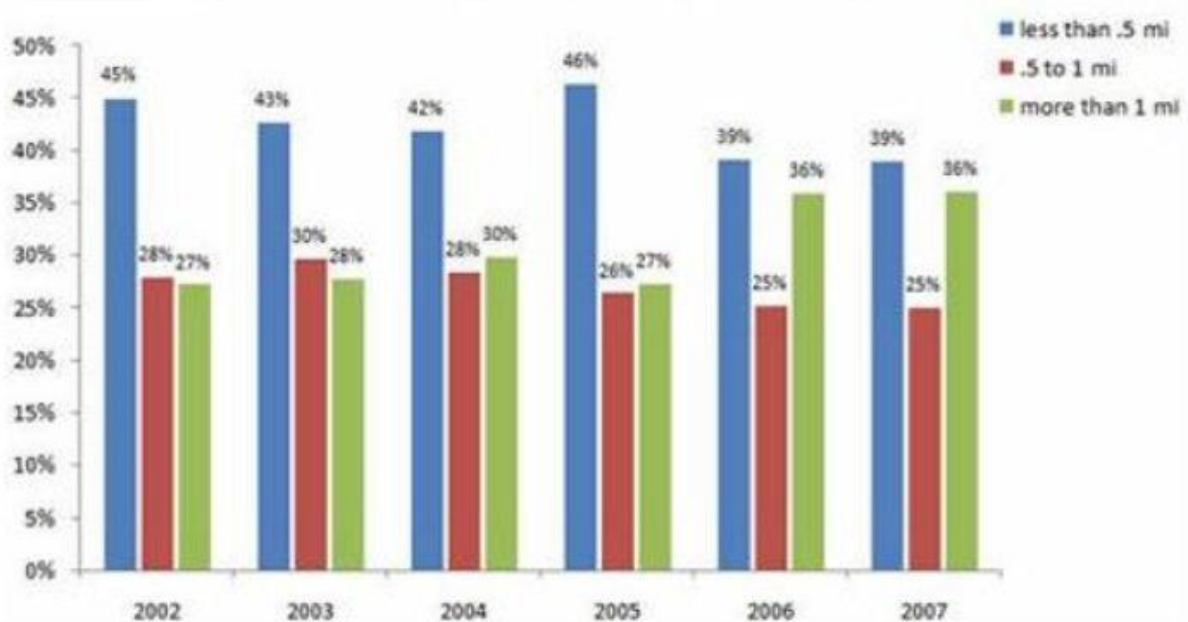GMAT IR Practice Test 24

## Question 1

Although vitamin D is commonly referred to as a vitamin, an organic compound required as a vital nutrient in tiny amounts by an organism, it can be synthesized in adequate amounts by all mammals while exposed to sunlight. Typically, an organic chemical compound (or related set of compounds) is called a vitamin when it cannot be synthesized in sufficient quantities by an organism, and must be obtained from the diet. Vitamin D was discovered in an effort to find the dietary substance that was lacking in a disease called rickets, the childhood form of osteomalacia. In the developed world, vitamins such as vitamin D are added to, or fortified, in certain foods such as milk and orange juice.

**Indicate which statement in the table the given information most strongly suggests is true, and the statement that the given information most strongly suggests is false. Make only two selections, one in each column.**

| True | False | |
|---|---|---|
| | | Non-mammals are unable to synthesize vitamin D from exposure to sunlight. |
| | | People with inadaquate exposure to sunlight are at a high risk of developing diseases related to Vitamin D deficiency such as rickets and osteomalacia. |
| | | Vitamin D obtained from sunlight is of a higher quality than vitamin D obtained from fortified foods. |
| | | Vitamin D obtained from fortified foods is of a higher quality than vitamin D obtained from sunlight. |
| | | Vitamin D as a compound does not entirely fit the typical definition of a vitamin. |

## Question 2

## Crimes by distance from Central Square



The accompanying chart shows the % of petty crimes in Keono that took place at various distances from Central Square.

**From each drop down menu, select the option that provides the most accurate statement based on the information given.**

**1. If there were 150% more crimes committed in 2007 than in 2004, the number of crimes committed more than one mile from 1 Central Square in 2007 is approximately_____% of the number of crimes committed more than one mile from 1 Central Square in 2004.**

A. 54%
B. 154%
C. 200%
D. 300%

**2. If there were 400 crimes committed in 2002, how many more crimes would need to be committed more than one mile from the city center for the number of these crimes to double the number of crimes committed less than 1/2 of a mile from the city center?**

A. 63
B. 128
C. 252

D. 360

**Question 3**

In the popular casino game of craps, the pass line bet wins when a pair of 6-sided dice is rolled and the sum is a seven or eleven. The pass line bet loses when the sum is two, three or twelve. Any other number from two to twelve that are not one of the aforementioned numbers becomes "the point" and no money is won or lost on that roll.

**From the table below, select the expression that represents the probability of the pass line bet losing on the first roll and the probability of neither winning nor losing on the first roll.**

| Losin g | Neither | |
|---|---|---|
| | | 1/12 |
| | | 1/9 |
| | | 3/10 |
| | | 11/18 |
| | | 2/3 |
| | | 13/18 |

**Question 4**
A group of p politicians will stand in a straight line for a photograph before dining at a circular table. Which of the following represents the number of arrangements possible for all p politicians to be arranged for the photograph and then around the dinner table?

**Please make one selection in each column.**

| Dinner Table | Photograph | |
|---|---|---|
| | | 6 |
| | | 120 |
| | | 5040 |
| | | 20160 |

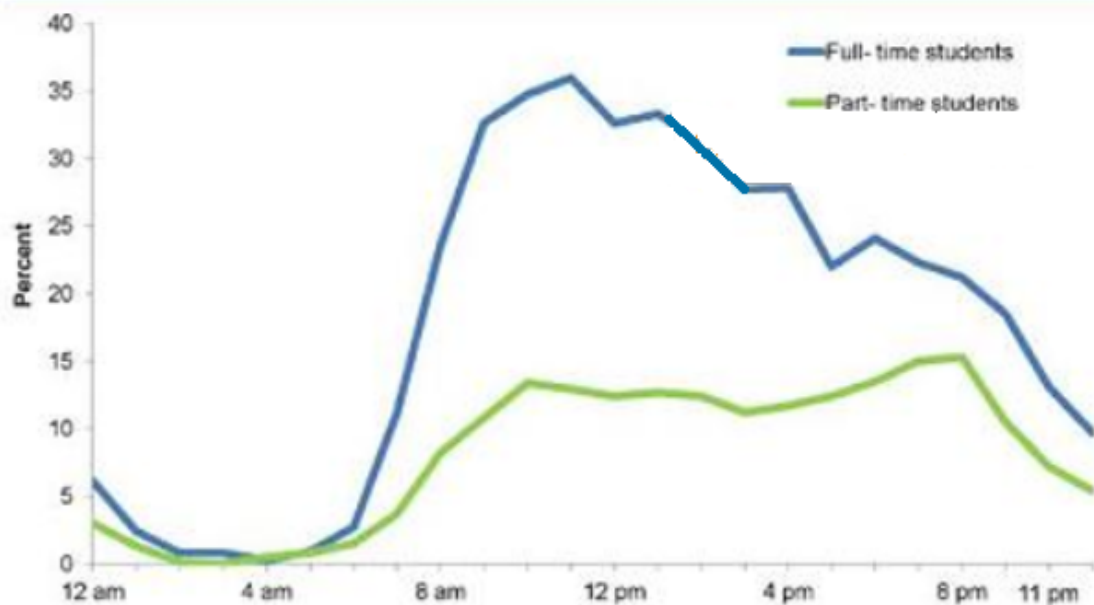| | | 40320 |
|---|---|---|
| | | 80640 |

## Question 5

**Jons supermarket chain's stores have recently switched at least partially from thin plastic bags that broke easily and had to be double-bagged frequently to new vinyl bags that are more than twice as strong as the older plastic bags.** Some have raised the question of whether the new bags have, **for a given number of items, reduced the number of bags that must be used than it did before.** The answer is, of course, yes, as the number of bags required for each shopper is reduced so long as the number of items purchased remains constant.

**In the table, select the statement that describes the role of the first bold portion and select the statement the describes the role of the second bold portion. Make two selections, one in each column.**

| Role of 1st bold portion | Role of 2nd bold portion | |
|---|---|---|
| | | Calls the conclusion of the argument as a whole into question. |
| | | Provides support for the conclusion of the argument. |
| | | Establishes a position that the argument as a whole opposes. |
| | | Provides context for a debate about which the argument takes a side. |
| | | Explains the nature of the question, the answer to which the conclusion of the argument attempts to supply. |
| | | Is the conclusion that the argument, as a whole, supports. |

Question 6

# Percent of university and college students who did educational activities, by hour of day on weekdays



NOTE: Data include individuals, ages 15 to 49, who were enrolled at a university or college. Data include non-holiday weekdays and are averages for 2006-10.

The accompanying chart shows the percentage of college students between the ages of 15 and 49 who did some educational activities during the week.

**From each drop down menu, select the option that creates the most accurate statement based on the information supplied.**

**1. The % of full time students studying was most similar at _____.**

A. 12pm and 4pm
B. 8am and 8pm
C. 12pm and 8pm
D. 12am and 11pm

**2. The % of full time students studying at 11pm is most similar to the % of part time students studying at _____.**

A. 6am
B. 8am
C. 10am

D. 10pm

Question 7
The attached chart graphs the average attendance per game for a certain sports franchise for 5 seasons, represented as percentage of stadium capacity. The stadium's capacity was increased from 60,000 seats to 90,000 seats before the 2004 season.

**1. The franchise's highest average attendance occurred in _____.**

A. 2002
B. 2003
C. 2004
D. 2005

**2. The highest total attendance for a season (the sum of individual game attendances) occurred in _____.**

A. 2002
B. 2003
C. 2004
D. It cannot be determined

**3. From 2003 to 2004, the average attendance per game _____.**

A. Increased by more than 5%
B. Decreased by more than 5%
C. Stayed approximately the same

Question 8
**In states where companies are mandated by labor laws to provide at least 5 days of paid sick leave per year to employees, reports of absenteeism due to illness are twice as frequent as they are in states where there is no such mandate.** Since it is very difficult to monitor each case of absenteeism to verify whether it is indeed a true case of illness, no accurate report of true illness-related absenteeism is available. However, this does not warrant the accusations of critics of the laws that in the states with mandated sick leave, at least half of the reported cases of absenteeism due to illness are fake. Clearly, **in states where most companies do not provide sick leave, workers do not have a strong incentive to skip work and prefer report to work while ill rather than go unpaid.**

**In the table, select the statement that describes the role of the first bold portion and select the statement the describes the role of the second bold portion. Make two selections, one in each column.**

| Role of 1st bold portion | Role of 2nd bold portion | |
|---|---|---|
| | | |

| | | A finding whose implications are disputed in the argument. |
|---|---|---|
| | | A finding whose accuracy is evaluated in the argument. |
| | | Evidence that has been used to support the argument as a whole. |
| | | A claim presented in order to argue against deriving certain implications from a finding. |
| | | Evidence presented to establish that the finding is accurate. |
| | | A claim presented in order to support deriving certain implications from a finding. |

Question 9

**Economist:** The historical behavior of politicians with regard to trade relations between countries has shown that when one country imposes a tariff on exports from a particular country, that country will then, in turn, impose its own tariffs against the original country in a move to pressure them to remove their original tariffs. However, if every nation acted in such a way, then tariffs would propagate endlessly, leading to crippled trade.

**Indicate two different statements as follows: one statement identifies an assumption required by the Economist's argument and the other identifies a possible fact that, if true, would, provide significant logical support for the required assumption.**

| Assumption required | Possible fact | |
|---|---|---|
| | | The country imposing the original tariff has a significantly larger GDP than the country on which the tariff is imposed. |
| | | Countries impose tariffs primarily to protect domestic industries. |
| | | For any two given countries, at least one has already imposed a tariff on some or all of the other country's exports. |

| | | Disputes over trade relations can often be settled between leaders of country without the imposition of tariffs. |
| --- | --- | --- |
| | | Most tariffs are imposed on luxury items as opposed to consumer staples. |
| | | A country may impose a tariff on another country's exports even if there are currently no tariffs imposed by either country. |

Question 10

**Some scientists hypothesize that sugar is a contributing factor to a specific type of pancreatic cancer. They have found that people who consume at least 2 carbonated drinks containing sugar per day have a 90% higher rate of pancreatic cancer than those who drink the same number of diet drinks per day. Therefore, if we were to substitute diet soda for regular soda pop, it would considerably reduce our chances of getting pancreatic cancer.**

**From the following list, one answer choice would strengthen the conclusion and one would weaken it. Make one selection in each column.**

| Strengthen | Weaken | |
| --- | --- | --- |
| | | **Beverages account for slightly over one third of the average person's daily sugar consumption** |
| | | **On average, diet soda drinkers consume less sugar per day than do those who do not consume any soda at all** |
| | | **The amount of sugar contained in one can of soda equals the amount that the average non-soda drinker consumes in three days** |
| | | **Studies regarding the link between NutraSweet, a substance found in most diet sodas, and cancer have proven inconclusive in laboratory rats** |
| | | **Using laboratory rats, scientists have determined that no other dietary factor contributes more highly with pancreatic cancer than sugared soda consumption** |