GMAT IR Practice Practice 14
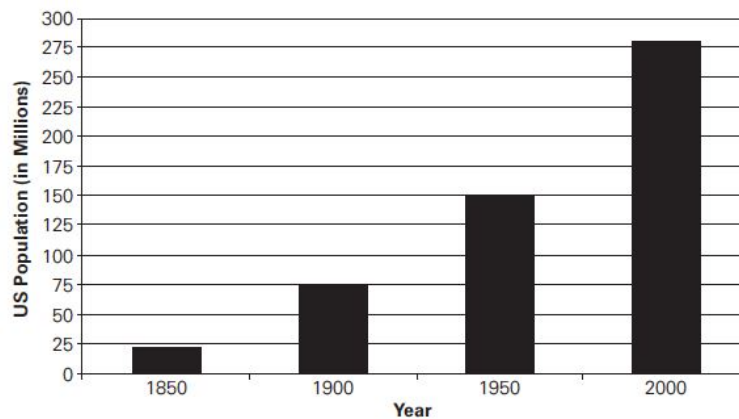
Question 1

Andre is buying gifts for his office staff. He wants to spend exactly $280 and he can buy either sweatshirt, which cost $22, or baseball caps, which cost $26. In the table below, choose the number of sweatshirts and the number of baseball caps that Andre should buy.

Sweatshirts	Baseball Caps	Number to Buy
(A) __	(A) __	4
(B) __	(B) __	5
(C) __	(C) __	6
(D) __	(D) __	7
(E) __	(E) __	8
(F) __	(F) __	9

Question 2-4

The bar chart below displays the population of the United States according to official census figures every fifty years over a 150-year period.

Question 2 The ratio of the U.S. population in 2000 to the U.S. population in 1900 is closest to __.

A. 1 to 4

B. 2 to 7

C. 2 to 1

D. 3 to 1

E. 11 to 3

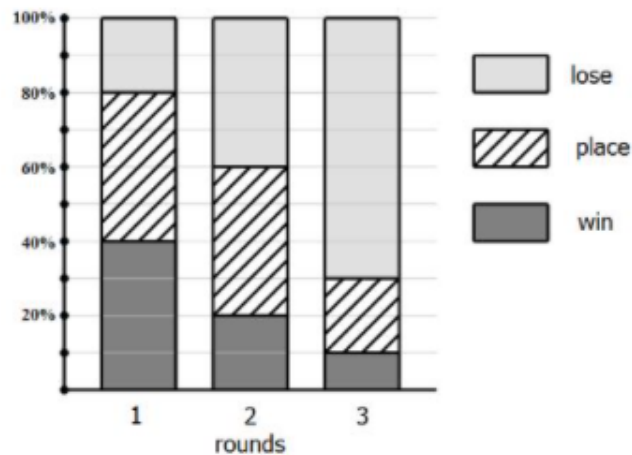Question 3 The U.S. population in 1950 was approximately __ of the U.S. population in 1850.

A. 800%

B. 600%

C. 200%

D. 85%

E. 15%

Question 4 The U.S. population increased by approximately __ from 1900 to 1950.

A. 25%

B. 33%

C. 50%

D. 100%

E. 200%

Question 5-6

In a certain academic competition, there are three rounds, and three possible results in each round. The folks who "lose" acquire no commendations and do not advance to the next round. The folks who "place", acquire a set of commendations for that round, but do not advance to the next round. The folks who "win" acquire a set of commendations for that round, and, in the case of the first two rounds, advance to the next round; in the case of the third round, the "win" means winning the entire competition. The following chart shows, on average, the percentages of participants who achieve the three results in each of the three rounds.

Question: 5 If 100,000 participant start this process, and if all the percentages in the chart are correct, _____ people of them would win the entire competition.

800
3,200
7,000
10,000

Question 6 Exactly _____ % of participants who start acquire exactly two sets of commendations.

16
16.8
20
21.6

Directions: *Read the information presented in our GMAT Two-Part Analysis practice test, and then select **two answers** from the choices below.*

Question 7

Team Legato is competing against Team Forte in a musical duets competition where two members from each team play a song together. Prizes are awarded for first, second, and third place to the three winning duets overall, and not for the three best duets on each individual team. Team Legato has 1/4 as many members as Team Forte.

- From the choices below, identify the number of members on each Team if there are 15 duos competing in total.

A 4

B 6

C 12

D 14

E 24

F 30

Question 8

Team Legato is competing against Team Forte in a musical duets competition where two members from each team play a song together. Prizes are awarded for first, second, and third place to the three winning duets overall, and not for the three best duets on each individual team. Team Legato has 1/4 as many members as Team Forte.

- Identify the number of possible duos on each team if there are 60 members of Team Forte.

A 105

B 370

C 705

Question 9

Team Legato is competing against Team Forte in a musical duets competition where two members from each team play a song together. Prizes are awarded for first, second, and third place to the three winning duets overall, and not for the three best duets on each individual team. Team Legato has 1/4 as many members as Team Forte.

- If there are 20 duos competing, identify the closest approximate number of possible different arrangements of medal winners if it is not possible for one team to "sweep" the awards and Team Legato must come in first, and the number of possible different arrangements of medal winners if there are half as many participants.

A 10,000

B 100,000

C 500,000

D 1 million

E 1.5 million

F 3 million

Question 10

Clearwater State Bank is offering an introductory 20% interest rate on a new account, which will compound semi-annually for the first two years, then compound 5% annually thereafter. Customer 1 deposits $100 in that account to start. To compete, Clearwater Credit Union is offering a similar offer. Their newest account offers an introductory rate of 15% compounded quarterly for the first year, and a rate of 6% compounded quarterly thereafter. Customer 2 deposits an

unknown amount with Clearwater Credit Union. After two years, the customers had an equal amount saved.

- From the choices below, identify the amount Customer 1 will have in Clearwater State Bank after one year, and the amount Customer 1 will have after 21 months if he moves his balance at the end of the first year to Clearwater Credit Union. Make two selections.

| A | 121 |

| B | 135 |

| C | 168 |

| D | 186 |

| E | 208 |

| F | 220 |

Question 11

Clearwater State Bank is offering an introductory 20% interest rate on a new account, which will compound semi-annually for the first two years, then compound 5% annually thereafter. Customer 1 deposits $100 in that account to start. To compete, Clearwater Credit Union is offering a similar offer. Their newest account offers an introductory rate of 15% compounded quarterly for the first year, and a rate of 6% compounded quarterly thereafter. Customer 2 deposits an unknown amount with Clearwater Credit Union. After two years, the customers had an equal amount saved.

- From the choices below, identify the closest approximate amount the first customer's investment was worth after four years, and the difference in value of each customer's investment after four years. Make two selections.

A 3

B 30

C 80

D 100

E 130

F 160

Question 12

Clearwater State Bank is offering an introductory 20% interest rate on a new account, which will compound semi-annually for the first two years, then compound 5% annually thereafter. Customer 1 deposits $100 in that account to start. To compete, Clearwater Credit Union is offering a similar offer. Their newest account offers an introductory rate of 15% compounded quarterly for the first year, and a rate of 6% compounded quarterly thereafter. Customer 2 deposits an unknown amount with Clearwater Credit Union. After two years, the customers had an equal amount saved.

- From the choices below, identify approximately how much extra Customer 1 would earn by keeping his money in Clearwater State Bank for four years versus two years, and also identify the difference in the final balances if he moved his investment to Clearwater Credit Union halfway through the four years. Make two selections.
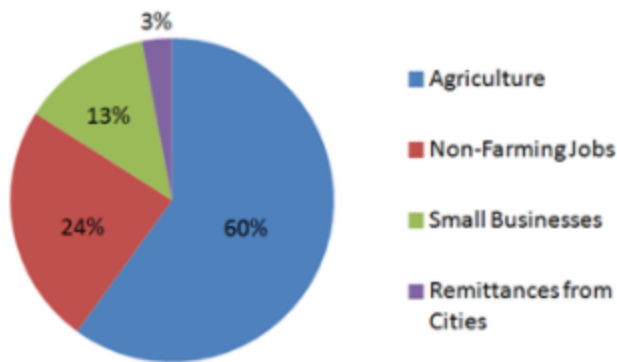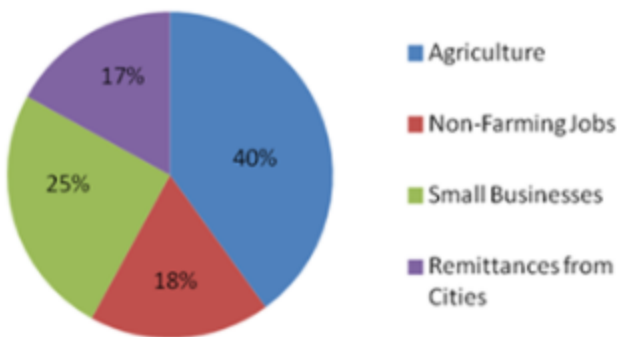
A 15

B 19

C 111

D 224

E 233

F 458

Question 13

Rural Economy in Central America - 2000

- Agriculture: 60%
- Non-Farming Jobs: 24%
- Small Businesses: 13%
- Remittances from Cities: 3%

Rural Economy in Central America - 2010

- Agriculture: 40%
- Non-Farming Jobs: 18%
- Small Businesses: 25%
- Remittances from Cities: 17%

The above pie charts give the percentages of the rural economy in a Central American country for the years 2000 and 2010.

The change in the overall earnings for non-farming jobs plus small businesses between 2000 and 2010
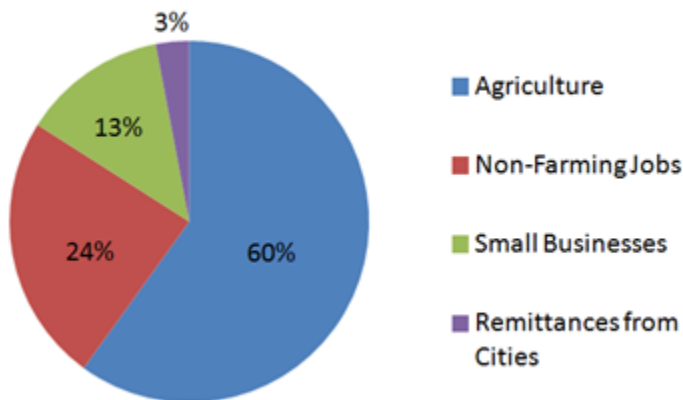
A   is positive
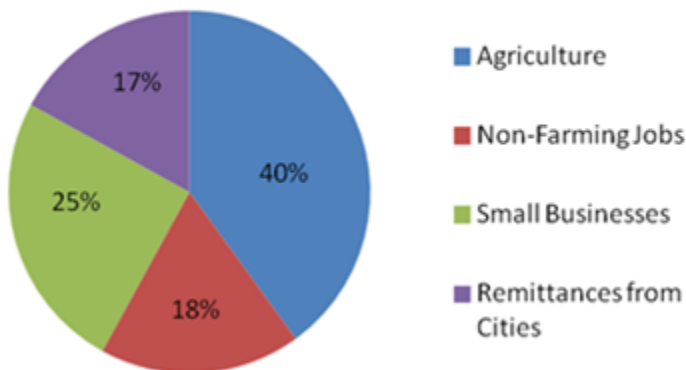
B   is negative

C   is zero

Question 14

Rural Economy in Central America - 2000

3%
13%
24%
60%

- Agriculture
- Non-Farming Jobs
- Small Businesses
- Remittances from Cities

Rural Economy in Central America - 2010

17%
25%
18%
40%

- Agriculture
- Non-Farming Jobs
- Small Businesses
- Remittances from Cities

The above pie charts give the percentages of the rural economy in a Central American country for the years 2000 and 2010.

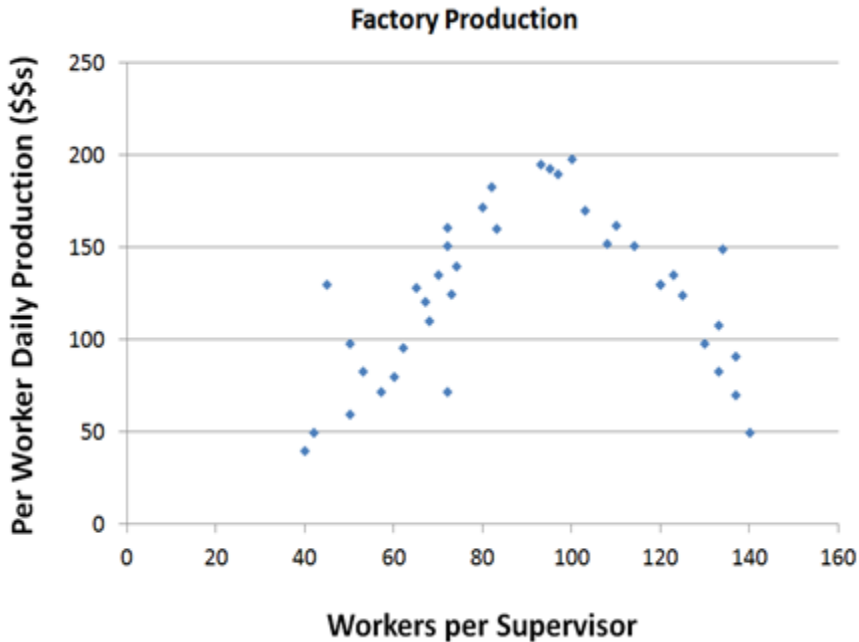**The smallest proportional change in percent between 2000 and 2010 in any segment of the rural economy was in**

Question 15

Factory Production

Per Worker Daily Production ($$s) vs. Workers per Supervisor

Assuming the trend in the graph stays the same over the range of workers per supervisor values, if the company were to employ 20 workers per supervisor they would likely be _____ productive than if the company were to employ 160 workers per supervisor.

Question 16

Factory Production

If it wanted to increase productivity, a company currently employing 115 workers per supervisor should consider

A adding 15% more workers
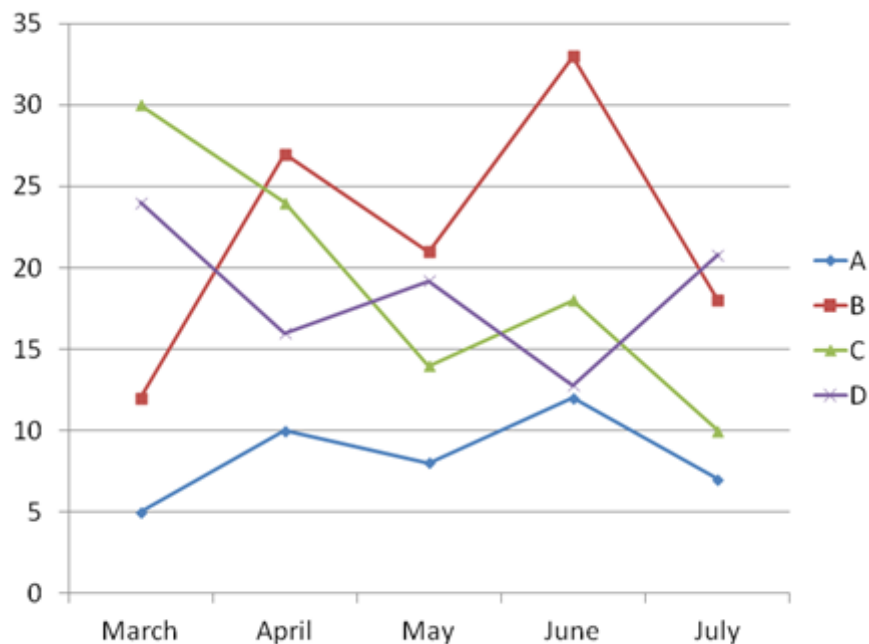
Question 17

The above graph gives the values for 4 items measured by the police department. One represents the number of crimes reported, one represents the number of arrests made, one represents the number of police officers on staff, and one represents the budget surplus for the department (in $1000s).
If the impact of a change enacted by the police department takes a month to register, then we can identify a negative linear relationship between B and
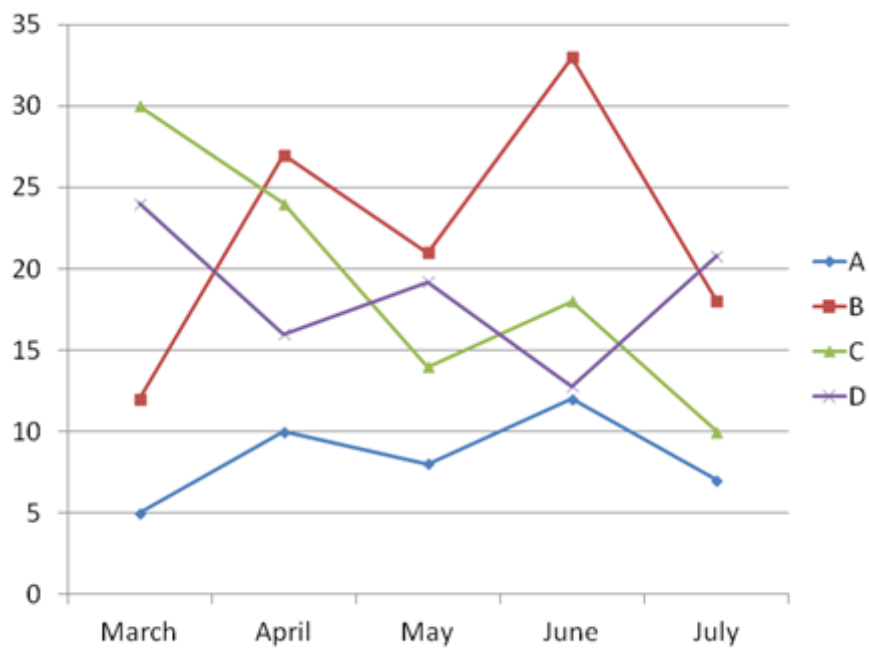
A A

B -

C C

D D

Question 18

The above graph gives the values for 4 items measured by the police department. One represents the number of crimes reported, one represents the

number of arrests made, one represents the number of police officers on staff, and one represents the budget surplus for the department (in $1000s).
Given that each new police officer hired will make multiple arrests, and each new hire will immediately cut into the budget, ____ represents the department's budget surplus.
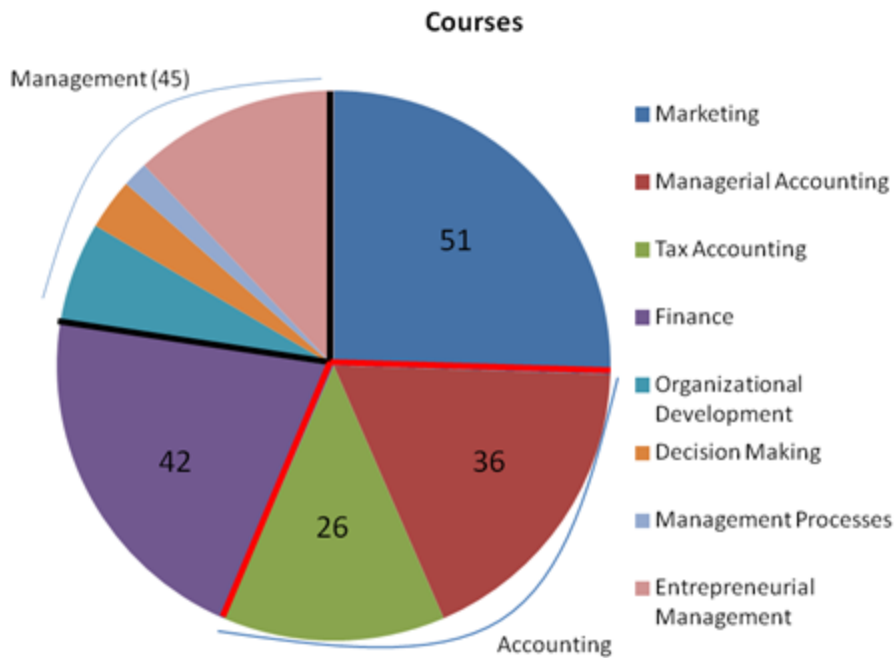
A A

B B

C C

D D

Question 19

Courses

Management (45)

- ■ Marketing — 51
- ■ Managerial Accounting — 36
- ■ Tax Accounting — 26
- ■ Finance — 42
- ■ Organizational Development
- ■ Decision Making
- ■ Management Processes
- ■ Entrepreneurial Management

Accounting

The above pie chart gives the number of course offerings in the business school in the four subject areas: Management, Marketing, Accounting, and Finances, and some of their subareas.

In a geometric progression, each term in the list is obtained by multiplying the previous term by a constant factor. If there are 12 Organizational Development courses, and _____ courses offered in the other subareas of Management, then the course offerings in the subareas of Management could be ordered into a geometric progression.
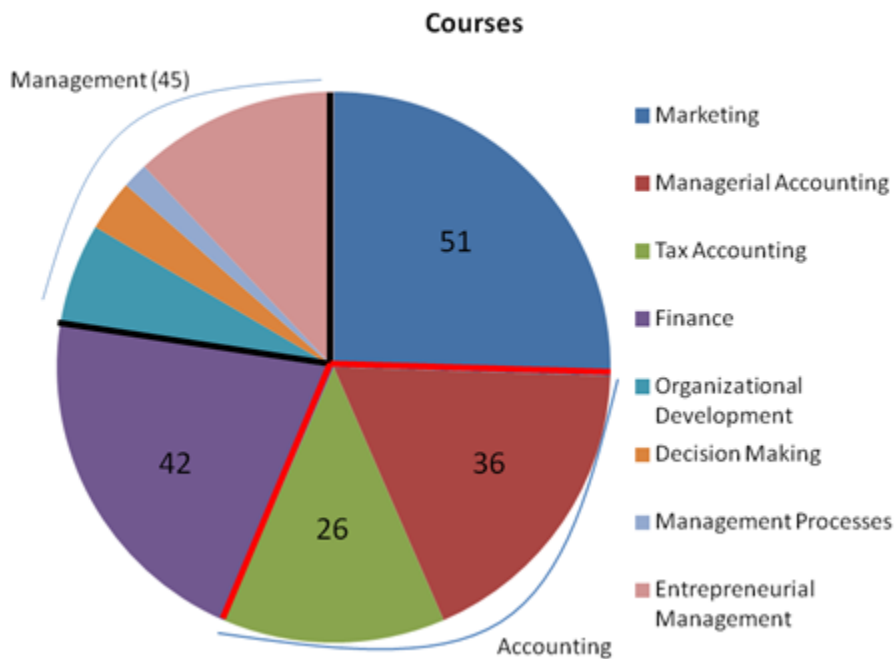
A 2, 8, 4

B 15, 18

C 13, 11, 10

Question 20

The above pie chart gives the number of course offerings in the business school in the four subject areas: Management, Marketing, Accounting, and Finances, and some of their subareas.

A student, randomly selecting two courses, has an approximately _____ chance of selecting one management and one tax accounting course.

A 2.9%

B 5.9%

C 12.6%

D 23.6%